

Curriculum Vitae: Henrik Moller

Contacts: Ecosystems Consultants, 30 Warden St., Opoho, Dunedin 9010, New Zealand
Email: ecosyst@ihug.co.nz
Website: www.ecosystemsconsultants.co.nz

Date of Birth: 24 February 1954, Ribe, Denmark.

Qualifications

BSc (Zool. & Botany Majors)	University of Auckland	1975
MSc (1st Class, Zool & Botany)	University of Auckland	1977
PhD	University of Aberdeen	1983

Current Employment

Director, *Ecosystems Consultants Ltd.*, a consultancy providing applied research and management advice for conservation, sustainable production and harvest and pest control: 1996 –present.

Professor (Personal Chair) at the *Centre for Sustainability: Agriculture, Food, Energy & Environment (CSAFE, www.csafe.org.nz)*, University of Otago, PO Box 56, Dunedin, New Zealand). 2010–2014; Professor Emeritus 2014–present..

Fulltime work for Ecosystems Consultants from October 2014.

Previous Employment

Lecturer, Senior Lecturer, and then Associate Professor at University of Otago, 1990-2010.

Research scientist, *Department of Scientific & Industrial Research, Ecology Division*, 1977–1978 and 1983–1990.

Research approach and philosophy

I wish to contribute to sound environmental management and policy formation in a way that is inclusive and invites lasting bottom-up solutions to land and natural resource management challenges. I support a diverse range of philosophies, values and stakeholders (business interests, farmers, cultures, communities, NGOs and government agencies). I seek partnerships between practitioners, Traditional and local Knowledge holders, and a wide range of “process professionals” like scientists, policy makers, regulators, industry facilitators. My invitations for the public to participate in my research process and help direct it, now called ‘Citizens Science’, began in 1986 when I enlisted the help of around 6,000 New Zealanders to send me introduced wasp samples. It has continued ever since, most recently through Participatory Action Research approaches and by applying Kaupapa Māori research where kaitiaki (Māori environmental guardians) co-direct research partnerships with our science team. My latest citizen science project (*‘Flip The Fleet’*) invites electric vehicle owners to share the data on their vehicle’s performance and calculates their financial and environmental benefits. Building on a 40-year foundation of ecological and wildlife research, I have in the past 15 years taken up social and economic research tools to find a transdisciplinary and more holistic (systems level) approach to sustainability and resilience. I therefore am seeking ways to bridge the sciences and humanities by combining rigorous quantitative and qualitative research methods in ways that avoid one trumping the other. A particular focus has been developing practical tools for partnership between mātauranga Māori (‘Traditional Ecological Knowledge’ in the international literature) so that each offers respectful peer review of the other in a genuine spirit of scepticism rather than political correctness. Most recently I have strived to build similar partnerships between the local and traditional knowledge of farmers and agricultural scientists to help protect access to export markets and restore agriecosystems. I have strived to combine theoretical with applied research, and combine environmental management interventions, framed as ‘experiments’, with more classic research approaches. My research contributions are therefore very broad – what I may lose in terms of depth and detail, I hope I gain in terms of ‘big picture’ synthesis and a systems understanding of the constraints and enablers for triggering change for improved resilience and sustainability. My accent on applied scholarship has meant that I have published mainly in New Zealand science journals because I believe they are of equal science quality to overseas ones, and because the main endusers and audience for my work are locals.

I now seek new research and consultancy tasks about agricultural sustainability, conservation, harvest sustainability, effective pest management and ways to mitigate climate change. I am also available as an expert witness in Resource Management Act hearings and will consider any applied ecology and transdisciplinary problem solving incorporating social, economic and environmental dimensions of sustainability and resilience.

Distinctions

- New Zealand Ecological Society's "Conservation in Action" award in 2008. This award was established to recognise individuals who are achieving excellence and best practice in the promotion of ecology, including communication, education and transfer of ecological science at the grass roots
- Graded 'A' (International excellence) by Performance Based Research Funding Assessment in 2007 and 2010.
- Nobel Peace Prize for 2007 (Joint award to Al Gore and ca. 3000 scientists contributing to United Nation's Intergovernmental Panel on Climate Change 4th global assessment). My role was 'Review Editor' in this team for Australasian section of the (reviewing impacts of climate change on Australasia)
- Invited public presentation as the University of Otago Science Division's contribution to Te Rangi Hiroa Centenary celebrations, September 2004
- My *Kia Mau Te Titi Mo Ake Tōnu Atu* research project was featured as example of best professional practice of bicultural approaches to environmental research and management in the Parliamentary Commissioner for Environment's national review of Treaty-based environmental audit responses, 2002 (*He rangahau ki te aria ko te Tiriti te putake e whakatuturutia ai ngā tikanga mo te taiao*)
- Prof. Fikret Berkes' book (*Sacred Ecology*, 1999, Taylor & Frances, Philadelphia) featured my research model with Rakiura Māori as an innovative and successful example of cross-cultural problem solving and power sharing in research partnerships (pp 172-175)
- Prof. Ranganui Walker's review of the University of Otago's Treaty of Waitangi responses (1998) singled out my research as an "exemplar of best professional practice" in bicultural application of science
- British Council Educational Link award, 1996 – 1998
- Prince & Princess of Wales Science Award, Royal Society of NZ; 1995
- British Council Travel Award; 1995
- Stapledon Memorial Trust Travel Fellowship; Stapledon Foundation, London; 1995
- NZ Countrywide Bank Waitangi Fellowship; 1995
- Minister of Conservation's nominee to NZ Game Bird Habitat Trust Board; NZ Fish & Game Council, 1993 - 2000
- I was awarded *Te Tohu Taiao* – the premier award for ecological excellence ("in recognition of outstanding achievements in the study and application of ecological science") in its inaugural year (1990) by the NZ Ecological Society
- NZ National Research Advisory Council Postgraduate Scholarship; 1977 - 1981
- Senior Scholarship; University of Auckland; 1975
- Senior Prize in Zoology; University of Auckland; 1973

Research Expertise

- Low Emission vehicle performance and benefits
- Agricultural sustainability and resilience
- Climate change impacts generally, and climate smart agriculture in particular
- Wildlife & habitat management
- Kaitiakitanga, Mātauranga Māori and customary use of wildlife by Māori
- Indigenous People's environmental management and philosophy
- Harvest management
- Mātauranga – science partnership models and epistemology
- Transdisciplinarity enablers and constraints
- Applied population and community ecology
- Terrestrial ecology
- Ecosystem management
- Socio-ecological Resilience theory as a framework for environmental management
- Wildlife bourn diseases, epidemiology, livestock protection
- Pest control, Biological control in theory and practice
- Conservation management and philosophy
- Biodiversity enhancement on New Zealand farmland
- Entomology
- Invasion ecology
- Experimental design
- Soil biology and indicators

Examples of research and writing for the above disciplines and outputs include:

1. The New Zealand Sustainability Dashboard: securing market access and adding value to New Zealand's exports by demonstrating and improving sustainability
2. Indicator selection for multicriteria assessment of sustainability
3. Forest restoration at Tūmai Beach Sanctuary
4. Choice modelling to guide inshore marine ecosystem management
5. The Cultural Precautionary Principle for guiding biocultural restoration
6. Impacts of irrigation and effluent dispersal on earthworms
7. Simulation of impacts of vehicles on toheroa recruitment on Oreti Beach, Southland
8. Organic farming standards and ecosystem services
9. Climate Smart agriculture: Intensification of New Zealand agriculture in the face of climate change
10. Development of a Marine Cultural Health Index for guiding community management of mātaimai and taiāpure (Māori fishing reserves) ecological restoration
11. Recording mātauranga and developing traditional monitoring methods for restoration of toheroa (surf clams) in Murihiku (Southland)
12. Interviewing 80 kaitiaki (Māori environmental guardians) and local experts on enablers and constraints to build effective community-led management of coastal and estuarine ecosystems
13. Design of surveys to measure fishing offtake from four mātaimai and taiāpure
14. Co-coordinating baseline ecological surveys (birds, bats, frogs, lizards, fish, invertebrates, threatened plants) on 105 farms (organic, integrated pest management and conventional) and orchards and then setting up a 20-year study of environmental changes on the farms.
15. Evaluation of earthworms as indicators of farming sustainability and resilience
16. Peer review of Australasian Chapter (written by around 20 co-authors) of Intergovernmental Panel on Climate Change 4th Assessment Report
17. Assessment of the sustainability of a traditional harvest of tītī (muttonbirds) by Rakiura Māori
18. Predator control strategies in indigenous forests and pastoral habitats
19. Mathematical modeling of predator control interventions and control efficacy
20. Development of novel ways of killing ferrets, stoats, cats and rats
21. Assessing the importance of ferrets, stoats and cats as vectors of bovine TB
22. Modeling optimum control of bovine TB wild animal vectors
23. Restoration of forest ecological communities
24. Modeling impacts of indigenous timber extraction on availability of tree holes for birds and bats
25. Computer simulation modeling to optimise protection of Yellow-eyed penguins from introduced predators
26. Weta ecology and behaviour
27. Introduced social wasp impacts and control
28. Conservation of Cromwell Chafer beetles
29. Habitat modifications to protect braided river bed birds from predators
30. Editing and publishing a proceedings of a national hui on kaitiakitanga, mātauranga and co-management
31. Setting stocking limits for beekeeping in protected natural areas
32. Predicting impacts of Rabbit Calici Virus on New Zealand's ecological communities
33. Review of existing knowledge, gaps in knowledge, research priorities to restore biodiversity on New Zealand farmland and to meet New Zealand's obligations to the Convention on Biological Diversity
34. Peer review of national research programme for Biological Control of Possums.
35. Analysis and interpretation of soil quality indicator differences between organic, conventional and integrated pest management farms.

Experience in Applied R & D, contract research, consultancies, research grants

1. Flip The Fleet: a citizen science approach to encourage uptake of electric vehicles in New Zealand. Seeding grants from Otago Museum's *Participatory Science Platform* pilot project. (2016-present)
2. The Agribusiness Group. *The New Zealand Sustainability Dashboard*. Funded by Ministry for Business, Innovation & Employment, 2012–2018. This project develops a multifunctional web application for monitoring sustainability in agriculture, forestry, horticulture and aquaculture and associated modules for choice modeling, stakeholder surveys, decision Support and State of Environment reporting. (2012-present)
3. Tūmai Beach sanctuary ecological restoration. (2011-present)
4. Cape Cape Sanctuary Advisory Group (Cape Kidnappers ecological restoration project involving habitat management, predator control, species translocations and recovery and eco-tourism). (2011 - present)
5. Landcare Research and Department of Conservation. Research of values and economic valuation of restoration of coastal forest ecosystems in northern North Island. (2011)
6. Landcare Research. Review of book chapters on cross-cultural partnership of science and mātauranga for ecological

- restoration. (2011)
7. Ministry for Science & Innovation and co-funders (Fonterra, Zespri, Canterbury Meatpackers Ltd. and Te Rūnanga o Ngāi Tahu). Agricultural Research Group on Sustainability – Phase III “Pathways to more sustainable agriculture: resilience to shocks”. (2011-2012)
 8. Marsden FastStart to Dr Christine Jacobsen (CSAFE). “Knowledge interfacing and power sharing in co-management: a comparative analysis”. Although I was the main mentor and academic helping to create the application, I withdrew after it was awarded as part of beginning a phased retirement from University of Otago (my role was transferred to Dr Janet Stephenson and Mr Rau Kirikiri).
 9. Danish Ministry of Food, Agriculture & Fishing to Dr Hugo Fjelsted Alrøe (PI, University of Aarhus). “Growth, robustness and credibility in organic farming and food systems”. (2010-2013)
 10. OECD Co-operative research Project Programme Fellowship to Dr Hugo Fjelsted Alrøe for study at CSAFE and to build future collaborative exchanges between UoO and a consortium of Scandinavian agricultural sustainability researchers. (2010)
 11. Foundation for research, Science & Technology and co-funders (Fonterra, Zespri, Canterbury Meatpackers Ltd. and Te Rūnanga o Ngāi Tahu). Agricultural Research Group on Sustainability – Phase II: “Pathways to more sustainable agriculture: resilience to shocks”. (2009-2011)
 12. Ngā Pae o te Māramatanga. Research exchange with Saugeen Ojibwe First Nation (Ontario, Canada). (2010)
 13. Ngā Pae o te Māramatanga. “Computer decision support to aid sustainable customary use of taonga species”. (2010-2012)
 14. Foundation for research, Science & Technology. *Te Hiringa Tangata Ki Te Tai Timu Ki Te Tai Pari* (Facilitating bicultural restoration of coastal forests using seabirds as ecosystem engineers)”. (2009-2013).
 15. Ngā Pae o te Māramatanga. “The Restitution of Marae and Communities through Mahinga Kai: Building the Management of Māori Customary Fisheries”. (2008)
 16. Building Research capability in Social Sciences. “Securing Mahinga Kai: Building Capacity Among Emerging Māori Researchers in the *Te Tiaki Mahinga Kai* Project”
 17. Environment Southland and Te Ao Mārama. “*Vehicle impacts on toheroa recruitment on Oreti Beach*”. Additional co-funding from Department of Conservation and Invercargill City Council. (2010-present)
 18. Marsden grant. *Tirohia he Huarahi*. (Co-principal Investigator with Dr Janet Stephenson, Centre for Study of Agriculture, Food & Environment - CSAFE). Researched Māori participation in the RMA and Fisheries Management institutions. (2009-2011)
 19. Landcare Research. *Te Hiringa Tangata, Ki Te Tai Timu Ki Te Tai Pari* (Facilitating bicultural restoration of coastal forests using seabirds as ecosystem engineers)– ecological restoration of seabird forests in northern North Island. (2009 – present)
 20. Environment Southland and Te Ao Mārama. Assessment of impacts of vehicle traffic on recruitment of toheroa on Oreti Beach, Invercargill. (2008 – present)
 21. Te Rūnanga o Ngāi Tahu Tutoi Te Whenua. Customary and recreational fishing surveys at Akaroa Taiāpure and Te Whaka a Te Wera Mātaimai. (2008-2009)
 22. Ōnuku Rūnanga and Wairewa Rūnanga (subcontractors – originating grant from Ministry of Fisheries). Mātauranga and science for restoration of Pāua. (2007 – 2009).
 23. Ōraka-Aparima Rūnaka (subcontractor – originating grant from Ministry of Fisheries). Mātauranga and science for restoration of Toheroa. (2007-2009)
 24. Te Rūnanga o Ngāi Tahu. Development of a Cultural Health Index for restoration of coastal habitats. (2007-present)
 25. National Institute of Water & Atmospheric Research, climate change impacts on sooty shearwaters. (2005-2008)
 26. Foundation for Research Science & Technology, *Te Tiaki Mahinga Kai* (the guarding of food gathering) – Mātauranga Māori and science for sustainable harvesting of customary fish in mataitai an taiapure community reserves. (2007–2012).
 27. Foundation for Research Science & Technology, *Te Honongā o Ngā Ao* (the joining of two worlds) – Mātauranga Māori and science for sustainable tītī harvests. (2007–2008)
 28. Landcare Research. Mātauranga Māori concerning kererū declines and management. (2007)
 29. Foundation for Research Science & Technology, Advisory Board member, Te Tipu Pūtaiao (“Growth in Science”) Fellowship scheme. (2006-2007)
 30. Landcare Research. Response of land use indicators and economic indicators to deregulation of NZ agriculture in 1984. (2006-2007)
 31. Landcare Research. Peer review of design of Oi (Grey-faced petrel) research with Hauraki iwi. (2006-2009)
 32. Kā Mate Ngā Kiore Incorporated (weka and rat impact studies on the Tītī Islands). (2005)
 33. MAF Sustainable Farming Fund, ‘Cleaner streams and improved stream health on sheep/beef farms’ (2005)
 34. MAF Sustainable Farming Fund, ‘Improved Weed Management Strategies for High Country and lowland Sheep/Beef farms’. (2005)
 35. Command Trustee Council (California, USA), rat eradication and research. (2005)
 36. The Agribusiness Group. Agriculture research Group On Sustainability. Funded by FRST, MPI, MBIE (with co-funding from Zespri International, Fonterra, Canterbury Meat Packers, Te Rūnanga o Ngāi Tahu, Merino NZ Inc. and Certified Organic

- Kiwifruit growers association). Securing market access for New Zealand agriculture through food and fibre accreditation schemes (comparing Organic, Integrated Management and conventional agriculture in the Kiwifruit, Dairy, Sheep & Beef sectors, and sustainability of Ngāi Tahu communally owned lands and in the High Country. (2003-2012)
37. FRST, *Kia Mau Te Tītī Mo Ake Tōnu Atu* (sustainability of tītī harvests by Rakiura Māori). (1994-2007).
 38. Dept of Conservation. Stoat ecology and control in high alpine grassland (Des Smith, PhD study). (2003-2005)
 39. New Zealand Aluminium Smelters Ltd. Sustainability of tītī harvests by Rakiura Māori. (1994-2008)
 40. Te Whare Wānanga o Aotearoa. Evaluation of proposed kaitiakitanga course for NZQA certification. (2004)
 41. Ministry of Agriculture & Forestry. Critical assessment of national research priorities for biological control of possums. (2002 & 2003)
 42. Landcare Research. Peer review of contract research reports on invasive ants. (2002)
 43. Dunedin City Forests. Reviews of poison use for pest control in relation to forest green certification. (2002)
 44. Ministry for Agriculture and Forestry. Review of current knowledge, gaps in knowledge and research priorities to safeguard biodiversity on New Zealand farms. (2001 & 2002)
 45. Whānau on Kapiti Island. Evaluation of ecological impacts of overnight stays at an eco-tourism lodge on Kapiti Island. (2001 & 2002)
 46. Department of Conservation. Determine the optimal spacing of bait stations and traps to effectively control stoats (*Mustela erminea*). (2000 – 2002)
 47. Animal Health Board. Test attractiveness of anal sac secretions for luring ferrets to poison baits and traps. (1998 – 2002)
 48. Landcare Research and the Animal Health Board. Testing attractiveness of non-toxic baits and anal gland secretions for attracting ferrets to traps and poison bait stations. (1998 - 2002)
 49. AgResearch and Animal Health Board. Modeling the optimum time for ferret control to protect livestock from bovine tuberculosis. (1998 - 1999)
 50. Southland Regional Council. Developing methods for monitoring ferret abundance, advising on adaptive predator management strategies, teaching pest control contractors about ferret biology and control strategies, advising on ecological restoration of small native forest fragments that are covenanted. (1997 - 2001)
 51. Timberlands West Coast Limited. Developing model methods of controlling introduced mammalian predators, developing a native forest community restoration plan, mathematical modeling of tree hole availability for the conservation of hole-nesting birds and bats, estimating the ecological value of beech forest gaps and peer review of DoC and Landcare critiques of sustainable forest use plans. (1996 - 1999)
 52. Fish & Game New Zealand. Providing articles on bicultural approaches to wildlife management, fish behaviour, fish parasites, predator control to promote numbers of game-birds, whitebait management. (1997 - 2001)
 53. Ministry of Science Research and Technology. Preparation of a cabinet briefing paper on response to RCD illegal release. (1997)
 54. Ministry of Agriculture. Advise Chief Veterinary Officer on whether or not to introduce Calicivirus disease to control rabbits. (1996 - 1997)
 55. The Rabbit & Land Management Programme, Otago Regional Council, Canterbury Regional Council, Marlborough District Council. Methods of estimating rabbit abundance. (1993 - 1995)
 56. The Ministry for the Environment. Predicting ecological impacts of new organisms proposed for release in New Zealand. (1993 - 1994)
 57. Rakiura Māori and the Foundation for Research Science & Technology. Advise on sustainability of tītī harvests (research 1993 - present; FRST contracts 1996 - present)
 58. Animal Health Board. Issues of bovine tuberculosis spread by small carnivores and the control of ferrets. (1993 - 2001)
 59. Department of Conservation. several projects (1991-1996) including:
 - o wasp ecology
 - o distribution impacts and control
 - o yellow-eyed penguin protection (Otago Peninsula and Catlins)
 - o Cromwell chafer beetle protection
 - o Royal Albatross protection (Taiaroa Head)
 - o giant skink conservation (Macraes Flat)
 - o protection of black stilts and other river bed birds in the Mackenzie Basin
 - o threats to tītī colonies on mainland New Zealand
 - o development of techniques for studying burrowing petrels (used for Taiko Recovery program)
 - o ecological impacts of beekeeping on protected natural areas
 - o peer review of New Zealand Biodiversity Strategy
 - o ecology and control of stoats in high alpine grassland

Supervision of Postgraduate Students

I have supervised/co-supervised 21 Doctorate, 17 Master of Science, 1 Master of Arts, 2 BSc (Honours), and 28 Postgraduate Diploma of Wildlife Management theses/dissertations, covering the following topics:

- Economic modelling for optimal spatial allocation of New Zealand's nearshore fisheries amongst commercial, recreational and customary fishers and marine reserves
- Restoration of seabird island forest ecosystems following removal of invasive species
- Restoration of Murihiku toheroa populations
- Oceanic fluctuations and their impact on seabird behaviour and movements
- Reproductive potential of Pāua and models for sustainable customary harvesting
- On-farm effluent dispersal and irrigation and their contribution to ecosystem services on Dairy farms
- Birds as indicators of sustainable management practices on New Zealand kiwifruit orchards
- Mātauranga, monitoring and management of Toheroa in Murihiku
- Energy Metabolism approaches to understanding New Zealand's environmental transitions over the past 160 years
- Birds as indicators of agroecosystem resilience and sentinels of market accreditation: a case study of New Zealand South island sheep/beef farms
- Seabird distribution, population ecology and behaviour
- Soil quality management by Māori farmers
- Monitoring bird abundance on New Zealand pastoral farms
- Kia Whakamāramatia Mahi Tītī: Predictive measures for understanding harvest impacts on Sooty Shearwaters (*Puffinus griseus*)
- Burrow entrance densities of Sooty Shearwaters and mottled petrels on Whenua Hou
- Biodiversity on organic and integrated management kiwifruit orchards
- Conservation philosophy in New Zealand
- Spacing behaviour and density of *Rattus rattus* on a tītī breeding island
- Te Hopu Tītī: aspects of the customary harvesting of tītī by Kai Tahu Whānui
- Accuracy of the burrowscope for assessing sooty shearwater burrow occupancy
- Modelling colonisation of islands by Norway rats
- Ecology of stoats (*Mustela erminea*) in high alpine grasslands
- Variation in Sooty Shearwater burrow entrance density, burrow use and chick emergence: Science and Traditional Environmental Knowledge approaches
- Accidental take of Sooty (*Puffinus griseus*) and Short-tailed Shearwaters (*P. tenuirostris*) in fisheries
- Satellite telemetry of Sooty Shearwater (*Puffinus griseus*): Techniques and duration of transmitter attachment, behavioural effects and movements
- Telemetry reduces colony attendance by Sooty Shearwater (*Puffinus griseus*)
- Impacts of introduced mammalian predators on mainland sooty shearwater (*Puffinus griseus*) colonies
- Sooty Shearwater (*Puffinus griseus*) survival in unharvested populations
- Traditional ecological knowledge and harvest management of tītī (*Puffinus griseus*) by Rakiura Māori
- Demography of Procellariids: harvesting, chick quality and model complexity
- The Ecology, Spatial Organisation and Conservation of Long-tailed Bats *Chalinolobus tuberculatus*
- Predation and harvest impacts on Sooty Shearwaters (*Puffinus griseus*) in New Zealand
- The ecological impact and control of introduced social wasps (*Vespula* spp.) in *Nothofagus* forest
- Automated recording of Sooty Shearwater (*Puffinus griseus*) chick provisioning
- Diet of feral cats (*Felis catus*) in pastoral habitats of Canterbury, Otago and Southland: functional and numerical responses to rabbit availability
- Towards more effective predator control to restore mainland Sooty Shearwater (*Puffinus griseus*) colonies: targeting where, when and which species to control
- Ferret (*Mustela furo*) diet in relation to prey abundance and Tb infection in pastoral habitats of Otago
- The conservation Potential of Great Mercury Island
- Tuberculosis (*Mycobacterium bovis*) epidemiology and the ecology of ferrets (*Mustela furo*) on New Zealand farmland
- New Zealand Wetlands: a educational resource package
- Ecology, identification and control of introduced mammalian predators of Yellow-eyed Penguins (*Megadyptes antipodes*)
- Improvement of paste baits for brushtail possum (*Trichosurus vulpecula*) control; Otago
- A review of the ecology and a Population Viability Analysis of the Okarito brown kiwi (*Apteryx mantelli*)
- Predation of orb-web spiders (Araneidae) by introduced common wasps (*Vespula vulgaris*) in a New Zealand beech forest
- The effects of vegetation removal on rabbits (*Oryctolagus cuniculus*) and small mammalian predators in braided riverbeds of the Mackenzie Basin
- Predation of 'giant' (*Leiopisma otagense*, *Leiopisma grande*) and common skinks by feral house cats (*Felis catus*) and ferrets (*Mustela furo*) in the tussock grassland of Otago, New Zealand;
- Predation of North Island Robin (*Petroica australis longipes*) and North Island Tomtit (*Petroica macrocephala toitoi*) nests
- The Impact of the Introduced Common Wasp (*Vespula vulgaris*) on the Foraging Behaviour of the South Island Robin (*Petroica australis australis*)
- Foraging by tui (*Prosthemadera novaeseelandiae*) and bellbirds (*Anthornis melanura*) in relation to honeydew standing crop in a beech forest of the South Island, New Zealand

- Denning behaviour of female brushtail possums (*Trichosurus vulpecula*) at Pigeon Flat, Otago
- Increasing Public Awareness and Attitudes to Conservation Issues: a Role for Natural History Television
- Evaluation of the accuracy of radio-tracking by triangulation with special reference to predator movements in the Mackenzie Basin
- Design of a radio-tracking to study movements of possums (*Trichosurus vulpecula*); Factors influencing the predation of eggs and young of the banded dotterel (*Charadrius bicinctus*) on some braided rivers in the Mackenzie Basin
- Mainland and near-shore inlet colonies of Sooty Shearwaters (*Puffinus griseus*) in Otago
- Diet and movements of carnivores and the distribution of their prey in grassland around Yellow-eyed penguin (*Megadyptes antipodes*) breeding colonies
- Feeding ecology of parea and impacts of possums on parea food plants
- Improving the cost effectiveness and monitoring of goat control operations
- A review of the theory of invasion ecology, and ecological predictors of establishment and success of introduced animals in New Zealand
- Competition between the introduced wasps *Vespula germanica* and *V. vulgaris* in honeydew beech forest, north-western South Island, New Zealand
- Feral cat (*Felis catus*) use of vegetation buffer zones surrounding yellow-eyed penguin (*Megadyptes antipodes*) breeding areas in winter
- Control of New Zealand Animal Pests
- Lagomorph abundance and distribution around yellow-eyed penguin (*Megadyptes antipodes*) breeding colonies on the Otago coast of New Zealand
- Winter use by ferrets (*Mustela furo*) of vegetation buffer zones surrounding yellow-eyed penguin (*Megadyptes antipodes*) breeding areas
- Distribution, abundance and selection of refuge sites by the alpine weta, *Hemideina Māori* on the Rock and Pillar range;
- The role of sex ratio, spatial distribution, and head size in the mating system of the Rock and Pillar weta, *Hemideina Māori*.
- Concepts, conflicts and opportunities in open sanctuaries
- The effect of 1080 poisoned jam baits on rodents and mustelids
- Patterns of use of honeydew by birds and insects

Teaching Activities

Before my secondment to the Centre for Sustainability: Agriculture, Food, Energy & Environment (CSAFE), I taught blocks of the following papers:

- ECOL101 (Ecology)
- ECOL211 (Applied ecology).
- ECOL312 (Conservation Biology)
- WILM401 (Principles of Wildlife Management)
- WILM402 (Techniques of Wildlife management)
- WILM403 (Practice of Wildlife Management)
- ZOOL404 (Biostatistics for Wildlife Management)

I have provided guest lectures in:

- SCOM 419 *Critical Thinking in Science Communication* (2010)
- ANTH319 *Global Food Systems* course (2008)
- PLAN 438 Masters of Planning course (2007)
- ANTH 414 *Society & Animals* course (2006)
- University of Canterbury's GEOG206: Resource and Environmental Management (2007).
- School of Geography and Environment Sciences, University of Auckland, 2004.
- Half-day seminar for visiting class of 30 USA postgraduate students of environmental science, 2003.
- University of Canterbury, Forestry School 3rd year students, on wildlife Management and Community approaches to environmental management; 2000-2001
- Victoria University of Wellington, Environmental studies 4th year classes. (1997).
- Lincoln University's Department of Entomology and Animal Ecology lectures and individual interviews with postgraduate students. (annually; 1993 - 1997)

Most of my teaching contribution centred on redesign, expansion and teaching Postgraduate Diploma in Wildlife Management (1990-2003). I was course director for the overall course from 1990-1997. The Postgraduate Diploma in WILM is equivalent of a BSC Honours fourth year course for aspiring Wildlife researchers and managers for careers with Department of Conservation, Regional Councils, Environmental Education, Veterinary Ecology and Science Communication. Many of the students went on to complete Masters or doctorate degrees and until 1998 all students completed a dissertation.

Publications

Book Chapters

1. Merfield, C.; Manhire, J.; Moller, H.; Rosin, C.; et al.. Are organic standards sufficient to ensure sustainable agriculture? Lessons from New Zealand's ARGOS and Sustainability Dashboard projects. Kim Etingoff (ed). *Sustainable Development of Organic Agriculture: Historical Perspectives*. New Jersey: Apple Academic Press. (In press, 2016)
2. McClelland P.J., Coote R., Trow M., Hutchins P., Nevins H.N., Adams J., Newman J., Moller H. The Rakiura Restoration Project: Community action to eradicate *Rattus rattus* and *Rattus exulans* for ecological restoration and cultural wellbeing. Pp 451-454 In: Veitch, C. R.; Clout, M. N. and Towns, D. R. (eds). *Island invasives: Eradication and management*. IUCN, (International Union for Conservation of Nature), Gland, Switzerland. (2011).
3. Moller, H.; Lyver, P.O'B. Traditional ecological knowledge for improved sustainability: customary wildlife harvests by Māori in New Zealand. Pp. 219-234 in: Walker Painemilla, K., Rylands, A B., Woofter, A., & Hughes, C. (eds.) *Indigenous Peoples and Conservation: From Rights to Resource Management*. Conservation International. 326 pp + x. (2010).
4. Lyver, P.O'B.; Moller, H.; An alternative reality: Māori Spiritual guardianship of New Zealand's native birds. Pp 241 – 264 In: Sonia Tidemann and Andrew Gosler (Eds.). *Ethno-ornithology Birds, Indigenous peoples, Culture and Society*. Earthscan, London. 346 + xxii. (2010)
5. Campbell, H.; Rosin, C.; Norton, S.; Carey, P.; Bengé, J.; Moller, H. Examining the Mythologies of Organics: Moving beyond the Organic/Conventional Binary? Pp 238-251 in: Lawrence, G., Lyons, K. and Wallington, T. (eds.) *Food Security, Nutrition and Sustainability*. Earthscan: London. 295 pp. (2009)
6. Newman, J., and H. Moller. Use of Mātauranga (Māori Traditional Knowledge) and science to guide a seabird harvest: Getting the best of both worlds? In Kishigami, N. and J.M. Savelle, editors. *Indigenous Use and Management of Marine Resources*. Senri Ethnological Studies No. 67: 303- 321. National Museum of Ethnology, Osaka. (2005)
7. Davies, H.; Moller, H.; O'Hara, P.; Wright, D.; Veltman, C. Scientific and political challenges to developing Effective Biological Control of Possums. Pp 83 – 98. In *Biological Management of possums*. Report of Conference held under the auspices of National Science Strategy Committee for Possum & Bovine Tb Control. Ministry of Agriculture & Forestry, Wellington. ISBN 0-478-07652-5 (2001)
8. Moller, H.; Horsley, P.; Lyver, P. O'B.; Taiepa, T.; Davis, J.; Bragg, M. Co-management by Māori and Pākehā for improved conservation in the 21st century. Pp 156 – 167. In Perkins, H. & Memon, A. (eds.) *Environmental Planning and Management in New Zealand*. Dunmore Press, Palmerston North. (2000)
9. Moller, H. Customary use of indigenous wildlife - Towards a bicultural approach to conserving New Zealand's biodiversity. In *Biodiversity*. B. McFagen and P. Simpson (eds.). Wellington, Department of Conservation. 89 - 125. (1996)
10. Atkinson, I.A.E. and Moller, H. Kiore *Rattus exulans* (Peale 1848). In *Handbook of New Zealand mammals*. C.M. King ed. Auckland, Oxford University Press. 175-192. (1990)

Refereed Journal Articles

1. Buxton, R.T.; Taylor, G.; Jones C.J.; Lyver P.O'B.; Moller H.; Cree, A.; Towns, D. Spatio-temporal changes in density and distribution of burrow-nesting seabird colonies after rat eradication. *New Zealand Journal of Ecology* 40 (1): (In press, 2016)
2. Lyver, P.O'B.; Akins, A.; Phipps, H.; Kahui, V.; Towns, D.; Moller, H.. Key biocultural values to guide restoration action and planning in New Zealand. *Restoration Ecology*. 24: 314-323 (2016).
3. de Olde, E.M.; , Moller, H.; Marchand, F.; McDowell, R.W.; MacLeod, C.J.; Sautier, M.; Halloy, S.; Barber, A.; Bengé, J.; Bockstaller, C.; Bokkers, E.; Legun, K.A.; Le Quellec, I.; Merfield, C.; Oudshoorn, F.W.; Reid, J.; Schader, C.; Szymanski, E.; Sørensen, C.A.J.; Whitehead, J.; Jon Manhire. When experts disagree: the need to rethink indicator selection for assessing sustainability of agriculture. *Environment, Development and Sustainability* DOI 10.1007/s10668-016-9803-x (2016)
4. Alrøe, H. F.; H. Moller, J. Læssøe, and E. Noe. 2016. Opportunities and challenges for multicriteria assessment of food system sustainability. *Ecology and Society* 21(1):38. <http://dx.doi.org/10.5751/ES-08394-210138>
5. Manono, B.O., Moller, H. Effects of stock type, irrigation and effluent dispersal on earthworm species composition, densities and biomasses in New Zealand pastures. *Pedobiologia - International Journal of Soil Biology* 58: 187–193 <http://dx.doi.org/10.1016/j.pedobi.2015.09.002> (2015)
6. Manono, B.O.; Moller, H.; Morgan, R. Effects of irrigation, dairy effluent dispersal and stocking on soil properties of the Waimate District, New Zealand. *Geoderma Regional* 7 59–66. (2016)
7. Lyver, P.O'B.; Wilmhurst, J.M.; Wood, J.R.; Jones, C.J.; Fromont, M.; Bellingham, P.J.; Stone, C.; Sheehan, M.; Moller, H. Looking Back for the Future: Local Knowledge and Palaeoecology Inform Biocultural Restoration of Coastal Ecosystems in New Zealand. *Human Ecology* 43:681–695. (2015).
8. Merfield, C.; Manhire, J.; Moller, H.; Rosin, C.; Norton, S.; Carey, P.; Hunt, L.; Reid, J.; Fairweather, J.; Bengé, J.; Le Quellec, I.; Campbell, H.; Lucock, D.; Saunders, C.; MacLeod, C.; Barber, A.; McCarthy, A. Are organic standards sufficient to ensure sustainable agriculture? Lessons from New Zealand's ARGOS and Sustainability Dashboard projects. *Sustainable Agriculture Research* 4: 158-172. (2015)

9. Gadowski, K.; Moller, H.; Beentjes, M.; Lamare, M. Embryonic and larval development of the New Zealand bivalve *Paphies ventricosa* Gray, 1843 (Veneroidea: Mesodesmatidae) at a range of temperatures. *Journal of Molluscan Studies* 1–9. doi:10.1093/mollus/eyv001 (2015)
10. Buxton, R.T.; Anderson D.; Moller H.; Jones C.J.; Lyver P. Release of constraints on nest-site selection in burrow-nesting petrels following invasive rat eradication. *Biological Invasions* 17, 1453-1470. (2015).
11. Chhun, S., Kahui, V., Moller, H., Thorsnes, P. Advancing Marine Policy Toward Ecosystem-based Management by Eliciting Public Preferences. *Marine Resource Economics* 30: 261-275. (2015).
12. Buxton, R.T.; Jones, C.J.; Moller, H.; Lyver, P.O'B. One method does not suit all: Responses by three procellariid species to vocalization playbacks. *Emu - Journal of Austral Ornithology*. 115: 126-136 <http://dx.doi.org/10.1071/MU14051> (2015)
13. Rock, J.; Sparrow, A.; Wass, R.; Moller, H. Building dialogue on complex conservation issues in a conference setting. *Conservation Biology*. 28: 1428-1433. (2014)
14. Humphries, G R W; Bragg C.; Overton J.; Lyver, P.O'B.; Moller H. Pattern recognition in long term Sooty Shearwater (*Puffinus griseus*) data: applying machine learning to create a harvest index. *Ecological Applications*. 24: 2107–2121 (2014)
15. Buxton, R.T., Jones, C., Moller, H., Towns, D. Drivers of Seabird Population Recovery on New Zealand Islands after Predator Eradication. *Conservation Biology* 28:333-344. (2014).
16. Craig, J.L; Moller, H.; Norton, D.A.; Williams, M.; Saunders, D. Enhancing our Heritage: Conservation for 21st Century New Zealanders: Ways forward from the Tahī Group of Concerned Scientists. *Pacific Conservation Biology* 19:256-269. (2013)
17. McCarthy, A.; Hepburn, C.; Scott, N.; Schweikert, K.; Moller, H. (2013). Local people see and care most? Severe depletion of inshore fisheries and its consequences for Māori communities in New Zealand. *Aquatic Conservation: Marine and Freshwater Ecosystems*. DOI: 10.1002/aqc.2378
18. Chhun, S.; Thorsnes, P.; Moller, H. Preferences for Management of Near-Shore Marine Ecosystems: A Choice Experiment in New Zealand. *Resources* 2:406-438. (2013)
19. Fletcher D.J., Moller H., Clucas, R., Bragg C., Scott, D., Scofield P., Hunter C.M., Win I., Newman J., Mckechnie S., de Cruz J., and Lyver P. O'B. Age at first return to the breeding colony, juvenile survival rate and transience of sooty shearwater (*Puffinus griseus*). *Condor* 115: 465-476. (2013)
20. Dick, J., Stephenson, J., Kirikiri, R., Moller, H., Turner R. Listening to the Tangata Kaitiaki: Consequences of the loss of abundance and biodiversity in coastal ecosystems in Aotearoa New Zealand. *MAI Journal* 1:117-130. (2012)
21. Clucas, R.; Moller, H.; Bragg, C.; Lyver, P.O'B.; Fletcher, D.; Lyver, P.O'B.; Newman, J. Rakiura Maori Muttonbirding diaries: monitoring trends in Titi (*Puffinus griseus*) abundance in New Zealand. *New Zealand Journal of Zoology*. 39: 155-177. (2012)
22. MacLeod, C.; Blackwell, G.; Weller, F.; Moller, H. Designing a bird monitoring scheme for New Zealand's agricultural sectors. *New Zealand Journal of Ecology* 36: 312-323. (2012)
23. Meadows, S.; Moller, H.; Weller, F. Reduction of bias when estimating bird abundance within small habitat fragments. *New Zealand Journal of Ecology* 36: 408-415. (2012)
24. Weller, F.; Blackwell, G.; Moller, H. Detection probability for estimating bird density on New Zealand sheep & beef farms. *New Zealand Journal of Ecology* 36: 371-381. (2012).
25. Fukuda, Y.; Moller, H.; Burns B. Effects of organic farming, fencing and vegetation origin on spiders and beetles within shelterbelts on dairy farms. *New Zealand Journal of Agricultural Research* 54: 155-176. (2011)
26. Blackwell, G; Lucock, D.; Moller, H.; Hill' R.; Manhire, J.; Emanuelsson, E. Abundance and diversity of herbaceous weeds in sheep/beef pastures, South Island, New Zealand. *New Zealand Journal of Agricultural Research* 54: 53-69. (2011)
27. Smith D.H.V., Moller H., Wilson D.J., Murphy E.C. Prey switching by stoats (*Mustela erminea*): a supplemental food experiment. *Wildlife Research* 37: 604-611. (2010)
28. McKechnie, S.; Fletcher, D.J.; Newman, J.; Scott, D.; Bragg, C.; Moller, H. Modelling the intensity of harvesting of Sooty Shearwater chicks by Rakiura Māori in New Zealand. *Journal of Wildlife Management*. 74:828–842 (2010)
29. McKechnie, S.; Bragg, C.; Newman, J.; Scott, D.; Fletcher, D.; Moller, H. Assessing the monitoring of sooty shearwater (*Puffinus griseus*) abundance in southern New Zealand. *Wildlife Research* 36, 541–552 (2010)
30. Darnhofer, I.; Fairweather, J.; Moller, H. Assessing a farm's sustainability: Insights from resilience thinking. *International Journal of Agricultural Sustainability* 8: 186–198. (2010)
31. Charleton, K.; Bragg, C.; Knight, B.; Fletcher, D.; Moller, H.; Newman, J.; Scott, D. Spatial variation in burrow density of Sooty Shearwater *Puffinus griseus*. *Notornis* 56:1 -10. (2009)
32. Shaffer, S.A.; Weimerskirch, H.; Scott, D.; Pinaud, D.; Thompson, D.R.; Sagar, P.M.; Moller, H.; Taylor, G.A.; Foley, D.G.; Tremblay, Y.; Costa, D.P. Spatio-temporal habitat use of breeding Sooty Shearwaters (*Puffinus griseus*). *Marine Ecology Progress Series* 391: 209–220 (2009)
33. Moller, H. Matauranga Maori, science & seabirds in New Zealand. *New Zealand Journal of Zoology* 36: 203-210. (2009)
34. Moller, H.; Lyver, P.O'B.; Bragg, C.; Newman, J.; Clucas, R.; Fletcher, D.; Kitson, J.; McKechnie, S.; Scott, D. Rakiura Titi Islands Administering Body. Guidelines for cross-cultural Participatory Action Research partnerships: a case study of a customary seabird harvest in New Zealand. *New Zealand Journal of Zoology* 36: 211-241. (2009)
35. Moller, H.; Kitson, J.C.; Downs, T. Knowing by doing: learning for sustainable muttonbird harvesting. *New Zealand Journal of Zoology* 36: 243-258. (2009)

36. Moller, H.; Charleton, K.; Knight, B.; Lyver, P.O'B. Traditional Ecological Knowledge and scientific inference of prey availability: harvests of Sooty Shearwater chicks by Rakiura Māori. *New Zealand Journal of Zoology* 36: 259-274. (2009)
37. Bragg, C.; McKechnie, S.; Newman, J.; Fletcher D.; Moller, H.; Scott, D. Variation in abundance and harvest of sooty shearwaters by Rakiura Maori on Putauhinu Island. *New Zealand Journal of Zoology* 36: 275-289. (2009)
38. Scott D., Moller H., Fletcher D., Newman, J., Aryal J., Bragg C., Charleton, K. Predictive habitat modelling to estimate petrel breeding colony sizes: Sooty shearwater (*Puffinus griseus*) and mottled petrels (*Pterodroma inexpectata*) on Whenua Hou Island. *New Zealand Journal of Zoology* 36: 291-306. (2009)
39. Newman, J.; Scott, D.; Bragg, C.; McKechnie, S.; Moller, H.; Fletcher, D. Estimating regional population size and annual harvest intensity of the sooty shearwater in New Zealand. *New Zealand Journal of Zoology* 36: 307-323. (2009)
40. Moller, H.; Fletcher, D.; Johnson, P.N.; Bell, B.; Flack, D.; Bragg, C.; Scott, D.; Newman, J.; McKechnie, S.; Lyver, P.O'B. Changes in sooty shearwater (*Puffinus griseus*) abundance and harvesting on the Rakiura Tītī Islands. *New Zealand Journal of Zoology* 36: 325-341. (2009)
41. Rutherford, M.; Harper, G.; Moller, H. Denning behaviour of ship rats (*Rattus rattus*) on Taukihepa, a seabird breeding island. *New Zealand Journal of Zoology* 36: 343-353. (2009)
42. Adams, J.; Scott, D.; McKechnie S.; Blackwell, G.; Shaffer, S.; Moller, H. Effects of geolocation archival tags on reproduction and adult body-mass of Sooty Shearwaters (*Puffinus griseus*). *New Zealand Journal of Zoology* 36: 355-366. (2009)
43. Newman, J.; Fletcher, D.; Moller, H.; Harper, G.; Bragg, C.; Scott, D.; McKechnie, S. Newman J, Fletcher D, Moller H, Bragg C, Scott D, McKechnie S 2009. Estimates of productivity and detection probabilities of breeding attempts in the sooty shearwater (*Puffinus griseus*), a burrow-nesting petrel. *Wildlife Research* 36: 159–168. (2009)
44. Knight, B.; Moller, H., Bradley, S.; Davies, M. Austral seabirds: opportunities and challenges for future research and conservation. *Papers and Proceedings of the Royal Society of Tasmania* 142: 1-8. (2008)
45. Kitson, J.K. and Moller, H. Looking after your ground: resource management practice by Rakiura Māori tītī harvesters. *Papers and Proceedings of the Royal Society of Tasmania* 142: 161–176. (2008)
46. Newman, J., Scott, D., Fletcher, D., Moller, H., McKechnie, S. A population and harvest intensity estimate for Sooty Shearwater (*Puffinus griseus*) on Taukihepa (Big South Cape), New Zealand. *Papers and Proceedings of the Royal Society of Tasmania* 142: 177–184. (2008)
47. Smith D.H.V., Wilson D.J., Moller H., Murphy E.C., Pickerell G. Stoat density, diet and survival compared between alpine grassland and beech forest habitats. *New Zealand Journal of Ecology*: 32: 166-176. (2008)
48. MacLeod, C.J., Blackwell, G., Moller, H., Innes, J., Powlesland, R. The forgotten 60%: bird ecology and management in New Zealand's agricultural landscape. *New Zealand Journal of Ecology*. 32: 240-255 (2008)
49. Clucas, R.; Fletcher, D.J.; Moller, H. Estimates of adult survival rate for three sooty shearwater (*Puffinus griseus*) colonies in New Zealand. *Emu* 108: 237-250. (2008)
50. Moller, H.; MacLeod, C.J; Haggerty, J., Rosin, C., Blackwell, G., Perley, C.; Meadows, S.; Weller, F.; Gradwol, M. Intensification of New Zealand agriculture: implications for biodiversity. *New Zealand Journal of Agricultural Research* 51: 253–263 (2008).
51. McKechnie, S., Moller, H., Bragg, C., Newman, J., Scott D.S., Cruz, J.B. Recovery of a Sooty Shearwater (*Puffinus griseus*) breeding area after artificial disturbance. *New Zealand Journal of Ecology* 32: 34-40. (2008)
52. Smith, D.H.V., Wilson, D.J., Moller, H., Murphy, E.C. Using artificial nests to explore predation by introduced predators inhabiting alpine areas in New Zealand. *New Zealand Journal of Zoology*. 35: 119-128. (2008)
53. Söhle, I. S.; Robertson, C.J.R.; Nicholls, D.G.; Mouritson, H.; Frost, B.; Moller, H. Satellite tracking of sooty shearwaters (*Puffinus griseus*) during their pre-laying "exodus" and incubation. *Notornis* 54: 180-188 (2007)
54. McKechnie, S., Fletcher, D., Moller, H., Scott, D., Newman, J., Bragg, C. Estimating and correcting for bias in population assessments of sooty shearwaters. *Journal of Wildlife Management* 71: 1325- 1335. (2007)
55. Smith, D.H.V., Wilson, D.J., Moller, H., Murphy, E.C., Van Heezik, Y. Selection of alpine grasslands by stoats (*Mustela erminea*) inhabiting montane areas in southern New Zealand. *New Zealand Journal of Ecology* 31:88-97. (2007)
56. Shaffer, S.A.; Tremblay, Y.; Weimerskirch, H.; Scott, D.; Thompson, D.; Sagar, P.; Moller, H.; Taylor, G.A.; Block, B.A. Costa, D.P. Migratory shearwaters integrate oceanic resources across the Pacific Ocean in an endless summer. *Proceedings of the National Academy of Sciences USA*. 103: 12799-12802. (2006)
57. MacLeod, C.; Moller, H. Intensification and diversification of New Zealand agriculture since 1960: an evaluation of current indicators of sustainable land use. *Agriculture, Ecosystems and Environment*. 115: 201- 218. (2006)
58. Moller, H. Are current harvests of seabirds sustainable? *Acta Zoologica Sinica* 52 (Supp. Issue 1): 649-652. (2006)
59. Uhlmann, S.S.; Fletcher, D.; Moller, H. Estimating incidental takes of shearwaters in driftnet fisheries: lessons for the conservation of seabirds. *Biological Conservation* 123: 151-163. (2005)
60. Jones, C.; Moller, H. Hamilton, W. A review of potential techniques for identifying individual stoats (*Mustela erminea*) visiting control or monitoring stations. *New Zealand Journal of Zoology* 31: 193-203. (2004)
61. Spurr, E.B.; Ragg, J.R.; O'Connor, C.E.; Hamilton, W.J.; Moller, H.; Woolhouse, A.D.; Morse, C.W.; Morriss, G.A.; Arnold, G.C.; Clapperton, B.K. Effect of concentration of anal gland scent lures on the capture of ferrets (*Mustela furo*) in winter and spring. *New Zealand Journal of Zoology* 31: 227-232. (2004)

62. Moller, H., F. Berkes, P. O. Lyver, and M. Kislalioglu. Combining science and traditional ecological knowledge: monitoring populations for co-management. *Ecology and Society* 9(3): 2. [online] URL: <http://www.ecologyandsociety.org/vol9/iss3/art2> (2004)
63. Moller, H.; Charteris, M.; Russell, B.; Newman, J. Detection of Sooty Shearwater chicks (*Puffinus griseus*) by response to sound. *DOC Science Internal Series* 114. 13 pp. (2003)
64. Moller, H.; Hunter, C.M.; Howard, M.; McSweeney, P.; Scofield, P.R.; Scott, D.; Uren, S. Automated system for measuring breeding burrows entry and exit by sooty shearwaters (*Puffinus griseus*). *DOC Science Internal Series* 129. 25 pp. (2003)
65. Jones, C.; Bettany, S.; Moller, H.; Fletcher, D.; Lyver, P.; de Cruz, J. Burrow occupancy and productivity at coastal sooty shearwater (*Puffinus griseus*) breeding colonies, South Island, New Zealand: can mark-recapture be used to estimate burrowscope accuracy? *Wildlife Research* 30: 1-12. (2003)
66. Hawke, D.; Newman, J.; Moller, H.; Wixon, J. A possible early muttonbirder's fire on Poutama, a Rakiura tītī island, New Zealand. *Journal of the Royal society of New Zealand* 33: 497 – 508. (2003)
67. Cruz, J.B.; Lalas, C.; Jillett, J.B.; Kitson, J.C.; Lyver, P.O'B.; Imber, M.; Newman, J.; Moller, H. Prey spectrum of breeding Sooty Shearwaters in New Zealand. *New Zealand Journal of Marine & Freshwater Research* 35: 817 - 829. (2001)
68. Alterio, N.; Moller, H. Secondary poisoning of stoats (*Mustela erminea*) in a South Island podocarp forest, New Zealand: implications for conservation. *Wildlife Research* 27: 501 - 508. (2000)
69. Hunter, C.M.; Moller, H.; Fletcher, D. Parameter uncertainty and elasticity analyses of a population model: setting research priorities for shearwaters. *Ecological Modelling* 134: 299 - 323. (2000)
70. Söhle, I.; Moller, H.; Fletcher, D.; Robertson, C.J.R. Telemetry reduces colony attendance by sooty shearwaters (*Puffinus griseus*). *New Zealand Journal of Zoology*. 27: 357 - 365. (2000)
71. Hunter, C.M.; Moller, H.; Kitson, J. Muttonbirder selectivity of Sooty Shearwater (Tītī) chicks harvested in New Zealand. *New Zealand Journal of Zoology*. 27: 395 - 414. (2000)
72. Moller, H.; Frampton, C.; Hocken, A. G.; McLean, I. G.; Saffer, V.; Sheridan, L. The importance of seabird research for New Zealand. *New Zealand Journal of Zoology*. 27: 255 - 260. (2000)
73. Raffaelli, D.; Moller, H. Manipulative field experiments in animal ecology - do they promise more than they can deliver? *Advances in Ecological Research* 30: 299- 338. (2000)
74. Ragg, J. R., Mackintosh, C. G.; Moller, H. The scavenging behaviour of ferrets (*Mustela furo*), feral cats (*Felis domesticus*), possums (*Trichosurus vulpecula*), hedgehogs (*Erinaceus europaeus*) and harrier hawks (*Circus approximans*) on pastoral farmland in New Zealand: implications for bovine tuberculosis transmission. *New Zealand Veterinary Journal* 48:166-175. (2000)
75. McKinlay, B.; Moller, H.; Barron, B. The value of fencing to remove rabbits (*Oryctolagus cuniculus*) on a mainland nature reserve to protect native vegetation and insects. *Ecological Management* 8: 37 – 46. (2000)
76. Lyver, P.O'B., Robertson, C.J.R. and Moller, H. Predation at Sooty Shearwater (*Puffinus griseus*) colonies on the New Zealand mainland: is there safety in numbers? *Pacific Conservation Biology* 5: 347 – 57. (2000)
77. Ragg, J.R.; Moller, H.. Microhabitat selection by feral ferrets (*Mustela furo*) in a pastoral habitat, East Otago, New Zealand. *New Zealand Journal of Ecology* 24: 39 – 46. (2000)
78. Ratz, H.; Moller, H.; Fletcher, D. Predator identification from bite marks on penguin and albatross chicks. *Marine Ornithology* 27: 149 - 156. (1999)
79. Lyver, P. O'B.; Moller, H. Modern technology and customary use of wildlife: the harvest of Sooty Shearwaters by Rakiura Māori as a case study. *Environmental Conservation* 26: 280-288. (1999)
80. Lyver, P., Moller, H., Thompson, C. Changes in Sooty Shearwater (*Puffinus griseus*) chick production and harvest precede ENSO events. *Marine Ecology Progress Series*. 188: 237 – 248. (1999)
81. Moller, H.; Alterio, N. Home range and spatial organisation of stoats (*Mustela erminea*), ferrets (*Mustela furo*) and feral house cats (*Felis catus*) on coastal grasslands, Otago Peninsula, New Zealand: implications for yellow-eyed penguin (*Megadyptes antipodes*) conservation. *New Zealand Journal of Zoology*. 26: 165 –174. (1999)
82. Fletcher, D. J., Moller, H. and Clapperton, B.K. Spotlight counts for assessing abundance of rabbits (*Oryctolagus cuniculus* L.). *Wildlife Research* 26: 609 –620. (1999)
83. Yom-Tov, Y., Yom-Tov, S. and Moller, H. Competition, co-existence and adaptation amongst rodent invaders to Pacific and New Zealand Islands. *Journal of Biogeography* 26, 947 – 958. (1999)
84. Alterio, N., Moller, H. and Brown, K. Trappability and densities of Stoats (*Mustela erminea*) and ship rats (*Rattus rattus*) in a South Island *Nothofagus* forest, New Zealand. *New Zealand Journal of Ecology* 23: 95 – 100. (1999)
85. Brown, K. P., Alterio, N. and Moller, H. Secondary poisoning of stoats (*Mustela erminea*) at low mouse (*Mus musculus*) abundance in a New Zealand *Nothofagus* forest. *Wildlife Research* 25: 419 – 426 (1998)
86. Barlow, N.D., Beggs, J.R. and Moller, H. Spread of the wasp parasitoid *Sphexophaga vesparum vesparum* following its release in New Zealand. *New Zealand Journal of Ecology* 22: 205 – 208 (1998)
87. Lyver, P. O., Hamilton, S., McKenzie, M., Dickson, I., Doohar, M.T., Broad, T. and Moller, H. A Burrowscope for examining petrel nests in burrows. *Conservation Advisory Science Notes* 209. 21 pp (1998)

88. Rebergen, B., Keedwell, R., Moller, H. and Maloney, R. Breeding success and predation at nests of banded dotterel (*Charadrius bicinctus*) on braided river beds in the Central South Island, New Zealand. *New Zealand Journal of Ecology* 22: 33-42 (1998)
89. Beggs, J.R., Toft, R.J., Malham, J.P., Rees, J., Tilley, J.A.V., Moller, H. and Alspach, P. The difficulty of reducing introduced wasp (*Vespula vulgaris*) populations for conservation gains. *New Zealand Journal of Ecology* 22: 55-63 (1998)
90. Hamilton, S., de Cruz, J., Hunter, C. and Moller, H. An infrared scope for assessing sooty shearwater burrow occupancy. *Conservancy Advisory Science Notes* 187. 19 + 2 p. colour plates (1998)
91. Moller, H., Keedwell, R., Ratz, H. and Bruce, L. Lagomorph abundance and distribution around Yellow-eyed penguin (*Megadyptes antipodes*) breeding colonies on South Island, New Zealand. *New Zealand Journal of Ecology* 22: 65 - 70 (1998)
92. Brown, K. P., Moller, H., Innes, J. and Jansen, P. Identifying predators at nests of small birds in a New Zealand forest. *Ibis* 140: 274 - 279 (1998)
93. Alterio, N., Moller, H. and Ratz, H. Movements and habitat use of feral house cats *Felis catus*, stoats *Mustela erminea* and ferrets *Mustela furo* in grassland surrounding Yellow-eyed penguin *Megadyptes antipodes* breeding areas in spring. *Biological Conservation* 83: 187 - 194 (1998)
94. Moller, H., Clapperton, B.K. and Fletcher, D.J. Density of rabbits (*Oryctolagus cuniculus*) in the MacKenzie Basin, South Island, New Zealand. *New Zealand Journal of Ecology* 21: 161 - 167 (1997)
95. Alterio, N., Brown, K.P. and Moller, H. Secondary poisoning of mustelids in a New Zealand *Nothofagus* forest. *Journal of Zoology (London)* 243: 863 - 869 (1997)
96. Alterio, N. and Moller, H. The diet of stoats (*Mustela erminea*), feral house cats (*Felis catus*) and ferrets (*Mustela furo*) in grassland surrounding Yellow-eyed Penguin (*Megadyptes antipodes*) breeding areas. *Journal of Zoology, London* 243: 869 - 877 (1997)
97. King, C.M. and Moller, H. Distribution and response of rats (*Rattus rattus*, *R. exulans*) to seedfall in New Zealand Beech forests. *Pacific Conservation Biology* 3: 143-55 (1997)
98. Hamilton, S.A., Moller, H. and Robertson, C.J.R. A review of the distribution and abundance of Sooty Shearwaters (*Puffinus griseus*) in New Zealand. *Notornis* 44: 15 - 25 (1997)
99. Alterio, N. and Moller, H. Daily activity of stoats (*Mustela erminea*), feral ferrets (*Mustela furo*) and feral house cats (*Felis catus*) in coastal grassland, Otago Peninsula, New Zealand. *New Zealand Journal of Ecology* 21: 89 - 95 (1997)
100. Parker, N., Pascoe, A., Moller, H. and Maloney, R. Inaccuracy of a radio-tracking system for small mammals: the effect of electrical interference. *Journal of Zoology (London)* 239: 401-406 (1996)
101. Moller, H., McKinlay, B. and Newton, K. Day-time transect counts to measure relative abundance of rabbits (*Oryctolagus cuniculus*). *Journal of Zoology (London)* 239: 406-410 (1996)
102. Brown, K.P., Innes, J. and Moller, H. Sign left by brushtail possums after feeding on bird eggs and chicks. *New Zealand Journal of Ecology* 20: 277-284 (1996)
103. Brown, K.P., Moller, H., Innes, J. and Alterio, N.J. Calibration of tunnel tracking rates to estimate relative abundance of Ship rats (*Rattus rattus*) and mice (*Mus musculus*) in a New Zealand forest. *New Zealand Journal of Ecology* 20: 271-275 (1996)
104. Moller, H., Showers, J. and Wright, M. Sodium monofluoroacetate (1080) poisoned jam baits laid for brushtail possums (*Trichosurus vulpecula*) also kill ferrets (*Mustela furo*). *New Zealand Journal of Zoology* 23: 135 - 141 (1996)
105. Barr, K., Moller, H., Christmas, E., Lyver, P. and Beggs, J. Impacts of introduced common wasps (*Vespula vulgaris*) on experimentally placed mealworms in a New Zealand beech forest. *Oecologia* 105: 266 - 270 (1996)
106. Barlow, N., Moller, H. and Beggs, J.R. A model for the effect of *Sphecophaga vesparum vesparum* as a biological control agent of the common wasp (*Vespula vulgaris*) in New Zealand. *Journal of Applied Ecology* 33: 31 - 44 (1996)
107. Smith, G.P., Ragg, J.R., Moller, H. and Waldrup, K.A. Diet of feral ferrets (*Mustela furo*) from pastoral habitats in Otago and Southland, New Zealand. *New Zealand Journal of Zoology* 22: 363 - 369 (1995)
108. Ragg, J.R., Waldrup, K.A. and Moller, H. Distribution of gross lesions of tuberculosis caused by *Mycobacterium bovis* in ferrets (*Mustela furo*) from Otago. *New Zealand Veterinary Journal* 43: 338 - 341 (1995)
109. Ragg, J.R., Moller, H. and Waldrup, K.A. The prevalence of bovine tuberculosis (*Mycobacterium bovis*) infections in feral populations of cats (*Felis catus*), ferrets (*Mustela furo*) and stoats (*Mustela erminea*) in Otago, New Zealand. *New Zealand Veterinary Journal* 43: 333-337 (1995)
110. Hamilton, S.A. and Moller H. Can PVA models using computer packages offer useful conservation advice? Sooty Shearwaters in New Zealand as a case study. *Biological Conservation* 73: 107 - 117 (1995)
111. Butz Huryn, V.M. and Moller, H. An assessment of the contribution of honey bees (*Apis mellifera*) to weed reproduction in New Zealand protected natural areas. *New Zealand Journal of Ecology* 19: 111 - 122 (1995)
112. Tyrrell, C., Wharton, D.A., Ramløv, H. and Moller, H. Cold tolerance of an endoparasitic nematode within a freezing-tolerant orthopteran host. *Parasitology* 109: 367-372 (1994)
113. Harris, R. J., Moller, H. and Winterbourn, M. Competition for honeydew between two social wasps, in South Island beech forests, New Zealand. *Insectes Sociaux* 41: 379-394 (1994)
114. Clapperton, B.K., Tilley, J.A.V., Beggs, J.R. and Moller, H. Changes in the distribution and proportions of *Vespula vulgaris* (L.) and *Vespula germanica* (Fab.) (Hymenoptera: Vespidae) between 1987 and 1990 in New Zealand. *New Zealand*

- Journal of Zoology* 21: 295-303 (1994)
115. Brennan, M., Moller, H. and Parkes, J.P. Indices of density of feral goats in a grassland/forest habitat, Marlborough, New Zealand. *New Zealand Journal of Ecology* 17: 103-106 (1993)
 116. Moller, H., Tilley, J.A.V., Thomas, B.W. and Gaze, P.D. Effects of introduced social wasps on the standing crop of honeydew in New Zealand beech forests. *New Zealand Journal of Zoology* 18(2): 171-179 (1991)
 117. Moller, H., Plunkett, G.M., Tilley, J.A.V., Toft, R.J. and Beggs, J.R. The establishment of the wasp parasitoid, *Sphecophaga vesparum* (Hymenoptera: Ichneumonidae), in New Zealand. *New Zealand Journal of Zoology* 18(2): 199-208 (1991)
 118. Moller, H., Plunkett, G.M., Hamilton, C. and Tilley, J.A.V. Nesting sites of German (*Vespula germanica*) and Common wasps (*Vespula vulgaris*) (Hymenoptera: Vespidae) in New Zealand. *New Zealand Journal of Zoology* 18(2): 121-125 (1991)
 119. Moller, H., Clapperton, B.K., Alspach, P.A. and Tilley, J.A.V. Seasonality of *Vespula* wasp colonies in urban Nelson, New Zealand. *New Zealand Journal of Zoology* 18(2): 111-120 (1991)
 120. Moller, H. Biology, Ecology and Control of cosmopolitan invaders - The Social Wasps. *New Zealand Journal of Zoology* 18(2): i-iii (1991)
 121. Moller, H. Biological control of *Vespula* wasps by *Sphecophaga vesparum* - could its success be predicted? *New Zealand Journal of Zoology* 18(2): 227-228 (1991)
 122. Malham, J.P., Rees, J.S., Alspach, P.A., Beggs, J.R. and Moller, H. Traffic rate as an index of colony size in *Vespula* wasps. *New Zealand Journal of Zoology* 18(2): 105-109 (1991)
 123. Harris, R.J., Thomas, C.D. and Moller, H. The influence of habitat use and foraging on the replacement of one introduced wasp species by another in New Zealand. *Ecological Entomology* 16: 441-448 (1991)
 124. Harris, R.J., Moller, H. and Tilley, J.A.V. Weather-related differences in attractiveness of protein foods to *Vespula* wasps. *New Zealand Journal of Ecology* 15: 167-170 (1991)
 125. Beggs, J.R. and Moller, H. Wasp research - unco-ordinated goals or stuck in the descriptive bottleneck? *New Zealand Journal of Zoology* 18(2): 230-231 (1991)
 126. Thomas, C.D., Moller, H., Plunkett, G.M. and Harris, R.J. The prevalence of introduced *Vespula vulgaris* wasps in a New Zealand beech forest community. *New Zealand Journal of Ecology* 13: 63-72 (1990)
 127. Moller, H. Wasps kill nestling birds. *Notornis* 37: 76-77 (1990)
 128. Sandlant, G.R. and Moller, H. Abundance of Common and German wasps (Hymenoptera: Vespidae) in the honeydew beech forests of New Zealand in 1987. *New Zealand Journal of Zoology* 16: 333-343 (1989)
 129. Plunkett, G.M., Moller, H., Hamilton, C., Clapperton, B.K. and Thomas, C.D. Overwintering colonies of German (*Vespula germanica*) and Common wasps (*Vespula vulgaris*) (Hymenoptera: Vespidae) in New Zealand. *New Zealand Journal of Zoology* 16: 345-353 (1989)
 130. Moller, H. and Tilley, J.A.V. Beech honeydew: seasonal variation and use by wasps, honey bees and other insects. *New Zealand Journal of Zoology* 16: 289-302 (1989)
 131. Donovan, B.J., Moller, H., Plunkett, G.M., Read, P.E.C. and Tilley, J.A.V. Release and establishment of the wasp parasitoid *Sphecophaga vesparum vesparum* (Curtis) (Hymenoptera: Ichneumonidae) in New Zealand. *New Zealand Journal of Zoology* 16: 355-364 (1989)
 132. Clapperton, B.K., Moller, H. and Sandlant, G.R. Distribution of social wasps (Hymenoptera: Vespidae) in New Zealand in 1987. *New Zealand Journal of Zoology* 16: 315-323 (1989)
 133. Clapperton, B.K., Lo, P.L., Moller, H. and Sandlant, G.R. 1989. Variation in colour markings of German wasps *Vespula germanica* (F.) and Common wasps *Vespula vulgaris* (L.) (Hymenoptera: Vespidae) in New Zealand. *New Zealand Journal of Zoology* 16: 303-313 (1989)
 134. Clapperton, B.K., Alspach, P., Moller, H. and Matheson, A. Impact of Common and German wasps (Hymenoptera: Vespidae) on the New Zealand beekeeping industry. *New Zealand Journal of Zoology* 16: 325-331 (1989)
 135. Efford, M.G., Karl, B.J. and Moller, H. Population ecology of *Mus musculus* on Mana Island, New Zealand. *Journal of Zoology (London)* 216: 539-563 (1988)
 136. Moller, H. and Craig, J.L. The population ecology of *Rattus exulans* on Tiritiri Matangi Island, and a model of comparative population dynamics in New Zealand. *New Zealand Journal of Zoology* 14(4): 305-328 (1987)
 137. Moller, H. Red squirrels (*Sciurus vulgaris*) feeding in a scots pine plantation in Scotland. *Journal of Zoology (London)* 209: 61-83 (1986)
 138. Moller, H. and Tilley, J.A.V. Rodents and their predators in the eastern Bay of Islands. *New Zealand Journal of Zoology* 13: 563-572 (1986)
 139. Hickson, R.E., Moller, H. and Garrick, A.S. Poisoning rats on Stewart Island. *New Zealand Journal of Ecology* 9: 111-121 (1986)
 140. Moller, H. Tree wetas (*Hemideina crassicuris*) (Orthoptera: Stenopelmatidae) of Stephens Island, Cook Strait. *New Zealand Journal of Zoology* 12: 55-69 (1985)
 141. Moller, H. Patch choice of red squirrels feeding in a *Pinus sylvestris* plantation (Resume only). *New Zealand Journal of Ecology* 7: 206 (1984)
 142. Campbell, D.J., Moller, H., Ramsay, G.W. and Watt, J.C. Observations on foods of kiore (*Rattus exulans*) found in husking stations on northern offshore islands of New Zealand. *New Zealand Journal of Ecology* 7: 131-138 (1984)

143. Moller, H. Foods and foraging behaviour of red (*Sciurus vulgaris*) and grey (*Sciurus carolinensis*) squirrels. *Mammal Review* 13: 81-98 (1983)
144. Moller, H. An apparatus for anaesthetising small mammals. *Journal of Zoology (London)* 201: 579-581 (1983)
145. Moller, H. and Craig, J.L. Aspects of the ecology of kiore (*Rattus exulans*) on Tiritiri Matangi Island. *Proceedings of the New Zealand Ecological Society* 24: 129-130 (1977)
146. Fitzgerald, B.M., Karl, B.J. and Moller, H. Spatial organisation and ecology of a sparse population of house mice (*Mus musculus*) in a New Zealand forest. *Journal of Animal Ecology* 50: 489-518 (1977)

Major Reviews

1. Taiepa, T., Lyver, P., Horsley, P., Davis, J., Bragg, M. and Moller, H. Co-management of New Zealand's Conservation Estate by Māori and Pākehā: a review. *Environmental Conservation* 24 (3): 236 - 250 (1997)
2. Moller, H. Lessons for Invasion Theory from Social Insects. *Biological Conservation* 78: 125-142 (1996)

Refereed Conference Proceedings

1. Whitehead J.; Lu, Y.; Still H.; Wallis, J.; Gentle, H.; Moller H. Target Setting and Burden Sharing in Sustainability Assessment beyond the Farm Level. 12th European International Farming Systems Symposium, Workshop 2.4. 12 – 15 July, 2016. Harper Adams University, UK. <http://www.harper-adams.ac.uk/events/ifsa-conference/sub-theme.cfm?id=14> (2016)
2. Manhire, J.; Hunt, L.; Le Quellec, I.; Moller, H.; Barber, A.Q.; Bengé, J.; MacLeod, C.; McCusker, K.; Rosin, C. The New Zealand Sustainability Dashboard: Connecting Growers, Industry, Consumers, Regulators and Policy Makers to Drive Sustainable Horticulture. (2014).
3. Barber, A.; Gasso-Tortajada, V.; Moller, H.; Manhire, J.; Oudshoorn, F.; Sørensen, C. Benchmarking Energy and Water Efficiency in New Zealand Wine Production: Eco-Verification and Incentivising Improvement Using the New Zealand Sustainability Dashboard. (2014)
4. Norton, S.; Lucock, D.; Moller, H.; Manhire, J. Energy return on investment for dairy and sheep/beef farms under conventional, integrated or organic management. *Proceedings of the New Zealand Grasslands Association* 72: 145-150. (2010).
5. Carey, P.; Moller, H.; Bengé, J.; Lucock, D.; Manhire, J.; Norton, S.; Meenken, E. Do Differences in Soil Quality Increase Between Management Systems with Increasing Energy Intensification of the Production Sector? *Proceedings of 19th World Congress of Soil Science, Soil Solutions for a Changing World*, 1 – 6 August 2010, Brisbane, Australia. (2010)
6. Hunt L., Bengé J., Campbell H., Fairweather J., Greer G., Lucock D., Manhire J., Moller H., Norton S., Reid J., Rosin C., Saunders C. "Experiences of transdisciplinarity in research on agricultural sustainability". *International Farming Systems Association (IFSA): 9th European Symposium: "Building sustainable rural future: The added value of systems approaches in times of change and uncertainty"*, 4-7th July 2010, Vienna, Austria.
7. Moller, H.; Schweikert, K.; Futter, J. Sustaining toheroa in Murihiku: Mātauranga Māori, Monitoring and management. Pp 201-211 in: Taonui R.; Kahi, H.; Deeming, C.; Kururangi, K.; Cooper, G.; Ratahi, L.; Royal, M.; Taonui, R.; Haenga, M.; Bray, J. (Editors). *Ngā Kete a Rēhua Inaugural Māori Research Symposium Te Waipounamu 2008*. Published by Aotahi: School of Māori and Indigenous Studies, University of Canterbury (2010)
8. Moller, H.; Newman, J.; Lyver, P.O'B.; Rakiura Tītī Islands Administering Body (RTIAB). Fourteen years on: Lessons for community-led science partnerships from the *Kia Mau te Tītī Mo Ake Tōnu Atu* project. Pp 212-221 in: Taonui R.; Kahi, H.; Deeming, C.; Kururangi, K.; Cooper, G.; Ratahi, L.; Royal, M.; Taonui, R.; Haenga, M.; Bray, J. (Editors). *Ngā Kete a Rēhua Inaugural Māori Research Symposium Te Waipounamu 2008*. Published by Aotahi: School of Māori and Indigenous Studies, University of Canterbury (2010)
9. Moller H.; Fletcher D.; Newman J.; Clucas R.; Bragg, C.; McKechnie, S.; Lyver, P.O'B.; Scott, D.; Downs, T. Will the tītī remain plentiful enough for the mokopuna? A sustainability assessment of the Rakiura Māori tītī harvests. Pp 192-200 in: Taonui R.; Kahi, H.; Deeming, C.; Kururangi, K.; Cooper, G.; Ratahi, L.; Royal, M.; Taonui, R.; Haenga, M.; Bray, J. (Editors). *Ngā Kete a Rēhua Inaugural Māori Research Symposium Te Waipounamu 2008*. Published by Aotahi: School of Māori and Indigenous Studies, University of Canterbury (2010)
10. Moller, H.; Campbell, H.; Rosin, C.; Hunt L. and Fairweather, J. Questing for the transdisciplinary utopia: an untrodden pathway to achieve agricultural resilience in New Zealand? *Sustainable Consumption and Alternative Agri-Food Systems*. University of Liege, Arlon. May 27-30, 2008. (2008)
11. Bengé, J., Pearson, A., Reid, J. and Moller, H. Differences in soil quality between and within organic and integrated management kiwifruit orchards in New Zealand. *Acta Horticulturae* 753, Vol. 2: 599-608. (2007)
12. Moller, H., Wearing, A., Perley, C., Rosin, C., Richards, S., Blackwell, G., Campbell, H., Hunt, L., Fairweather, J., Manhire, J., Bengé, J., Emanuelsson, M., Steven, D. Biodiversity on kiwifruit orchards: the importance of shelterbelt management. *Acta Horticulturae* 753, Vol. 2: 609-618. (2007)
13. Rate, S., Blackwell, G., Rosin, C. Moller, H., Hunt, L. Diversity and abundance of birds in New Zealand Kiwifruit orchards. *Acta Horticulturae* 753, Vol. 2: 619-625. (2007)

14. Richards, S., Hewson, K., Moller, H., Wharton, D., Campbell, H., Bengé J. and Manhire, J. Soil Biota as Indicators of Soil Quality in Organic and Integrated Management Kiwifruit Orchards in New Zealand. *Acta Horticulturae* 753, Vol. 2: 627-632. (2007)
15. Lyver, P.O'B. and Moller, H. Tītī harvests by Rakiura Māori: a case study of the use of Māori Traditional Environmental Knowledge for sustainable natural resource management. Proceedings of Landcare Conference, Wellington 21 -23 April, 1999. Published on Landcare Research Web page: <http://www.landcare.cri.nz/conferences/manaakiwhenua/> (1999)
16. Moller, H. and Raffaelli, D. Predicting risks from new organisms: The potential of community press experiments. In Fletcher, D.J., Kavalieris, L. and Manly, B.F.J. (eds.). *Statistics in ecology and environmental monitoring 2: Decision making and Risk Assessment in biology*. Otago Conference Series No. 6, Dunedin, University of Otago Press 131-156 (1998)
17. Jordan, B., Moller, H. and Hickling, G. Field trial to assess possum preference for a new pest control paste. *Proceedings of the 50th New Zealand Plant Protection Conference* : 377-381 (1997)
18. Moller, H., Norbury, G. and King, C.M. Ecological and behavioural constraints to effective control of ferrets (*Mustela furo*). In *Proceedings of a Tuberculosis in ferrets workshop, Royal Society of New Zealand, Christchurch, 27 - 28 March*. Wellington, Royal Society of New Zealand (1996)
19. Ragg, J., Moller, H., Waldrup, K. and Mackintosh, C. Ferrets (*Mustela furo*) and bovine tuberculosis (*Mycobacterium bovis*); the need for a multispecies approach. In *Tuberculosis in wildlife and domestic animals*. Griffin, F. and de Lisle, G. (eds.). Dunedin, University of Otago Press 290-293 (1995)
20. Ragg, J., Waldrup, K. and Moller, H. Tuberculosis infections of ferrets, stoats and feral cats in Otago New Zealand. In *Proceedings of a deer course for Veterinarians* No. 11. Deer Branch of the New Zealand Veterinary Association, Queenstown. 114-126 (1994)
21. Hamilton, S.A. and Moller, H. Population viability analysis of Sooty Shearwaters (*Puffinus griseus*) for efficient management of predator control, harvesting and long-term population monitoring. In McAleer, M. and Jakeman, A. (eds.) *International congress on Modelling and Simulation Proceedings*, University of Western Australia, Perth, December 6-10. 621-626 (1993)
22. Moller, H., McKinlay, B., Alterio, N. and Ratz, H. Control of mustelids and cats to protect Yellow-eyed penguins. In *Proceedings of the National Predator Management Workshop*. Veitch, D., Fitzgerald, M., Innes, J. and Murphy, E. (eds). Threatened species occasional publication No. 3, Department of Conservation, Wellington. 54-55 (1992)
23. Beggs, J.R., Alspach, P.A., Moller, H., Toft, R.J. and Tilley, J.A.V. Impacts of the parasitoid *Sphecoxenus vesparum* on colonies of the common wasp (*Vespula vulgaris*). In *Proceedings of the New Zealand Entomological Society Conference* , Wellington, New Zealand Entomological Society (1992)
24. Moller, H. Towards constructive ecological engineering; the biological control of pests for the restoration of mainland habitats. In *Management of New Zealand's Natural Estate*. New Zealand Ecological Society Occasional Publication No. 1. Norton, D.A. (ed). 89-93 (1989)
25. Craig, J.L. and Moller, H. The ecology of kiore (*Rattus exulans*) on Tiritiri Matangi Island. In *The ecology and control of rodents in New Zealand nature reserves*. Dept of Lands and Survey Information Series No.4. Dingwall, P.R.; Atkinson, I.A.E. and Hay, C. (eds). 175-176 (1978)

Book Review Articles

1. Moller, H. Challenges for New Zealand's sustainable development brought into sharp perspective. (Book review). *New Zealand Journal of Ecology* 29: 159-160. (2005)
2. Moller, H. Wildlife Study Design: staying practical and obtaining reliable inference about a messy world. (Book review). *New Zealand Journal of Ecology* 26: 180 – 181. (2002)
3. Moller, H. Focus on science, policy and future challenges to conserve Australia's forest communities. (Book review). *New Zealand Journal of Ecology* 18: 184 - 185. (1994)
4. Moller, H. Global issues of conservation brought into sharp focus, briefly. (Book review). *New Zealand Journal of Ecology* 17: 108. (1993)

Non-refereed Journal Articles and Reports

1. Manhire, J.; Moller, H. The New Zealand Sustainability Dashboard MBIE Contract, Condition 3 Review – 2016. *NZ Sustainability Dashboard Internal Research Report* IN 16/06. 46 + iv pp. (2016)
2. Moller, H. Sustainability indicator selection criteria: a ranking survey by TempAg and New Sustainability Dashboard members. *TempAg Research Note*. 7 pages. Downloadable from: www.extranet.bbsrc.ac.uk/tan (June, 2015).
3. Moller, J.A.; Garden, C.; Moller, S.I.; Beentjes, M.; Bradley, D.; Skerrett, M.; Scott, D.; Stirling, F.F.; Moller, J.S.; Moller, H. Impact of vehicles on recruitment of toheroa on Oreti Beach. *Ecosystems Consultants Report* 2014/2. (2014)
4. Scott, D.; Moller, J.S.; Garden, C.; Stirling, F.; Moller, S.; Bartlett, M.; Beentjes, M.P.; Bradley, D.; Larkin, G.; Skerrett, M.; Rajapaksa, G.; Moller, J.A.; Moller, H. Recreational use of Oreti Beach, Southland, New Zealand, 2010 – 2012. *Ecosystems Consultants Report* 2014/1. (2014)
5. Manhire, J.; Le Quellec, I.; Moller, H. The New Zealand Sustainability Dashboard: a risk and reliability analysis. *NZ Sustainability Dashboard Internal Research Report* IN 14/08. 84 + vi pp. (2014).

6. Rosin, C., Moller, H., Saunders, C., McCusker, K., Manhire, J., Saunders, J.. Evaluating Intensification Trajectories in the Context of Climate Change: Final Report. *SLMACC/ARGOS External Research Report 14/03*. 73 + v pages. (2014)
7. Manono, B.O.; Moller, H. Effects of irrigation, effluent dispersal and dairy conversion on soil quality and earthworms in New Zealand. ARGOS Poster. Downloadable from www.argos.org.nz (2014)
8. Hunt, L.; MacLeod, C.; Moller, H.; Reid, J.; Rosin, C. Framework and indicators for the “New Zealand Sustainability Dashboard’: reflecting New Zealand’s economic, social, environmental and management values. *NZ Sustainability Dashboard Research Report 13/09*. Published by ARGOS. (Online at: www.nzdashboard.org.nz) (2014)
9. Jayaraman, A.; Kamiyama, C.; Fong, C.S.; Akiba, H.; Moller, H.; Spiegelberg, M.; Saito, O.; Kieninger, P.; Gou, S.; Nakamura, S.; Susuki, W.; Fukuda, Y.; Amano, Y. International Workshop on Sustainable Management of Socio-ecological Production Landscapes in Noto. *Report published by United Nations University, Institute for Advanced Study of Sustainability, Tokyo, Japan*. Downloadable from <http://ias.unu.edu/en/news/news/workshop-shares-research-on-sustainable-management-of-landscapes-in-noto-japan.html#files>. (2014)
10. Rosin, C.; Moller, H.; Manhire, J.; Saunders, C.; McKusker, K. Climate smart intensification pathways for more resilient pastoral farming in New Zealand: Stakeholder workshop reports. *SLMACC/ARGOS Workshop Consultation Document*, April 2014. 42 pp. (2014)
11. Rosin, C.; Moller, H.; Manhire, J.; Saunders, C.; McKusker, K. Climate smart intensification pathways for more resilient pastoral farming in New Zealand. *SLMACC/ARGOS Workshop Consultation Document*, March 2014. 9 pp. (2014).
12. Rosin, C.; Manhire, J.; McKusker, K.; Lucock, D.; Hunt, L.; Saunders, J.; Moller, H.; Saunders, C.; Chanut, P.; Busfield, W.; Reynolds, D. Identifying climate smart intensification pathways for more resilient pastoral farming in New Zealand. Poster for presentation at SLMAC stakeholder workshops, Hamilton, Lincoln & Wellington, March 2014. [the poster can be downloaded from www.argos.org.nz/SLMACC. (2014).
13. Dwiartama, A.; Fukuda, Y.; Woodford, K.; Manhire, J.; Moller, H.; Mavromatis, G.; Stirling, F.; Saunders, C.; Byrom, A.; Moller, S.; Rosin, C. International research collaboration for agricultural sustainability: opportunities for partnership with the New Zealand Sustainability Dashboard. *New Zealand Sustainability Dashboard Research Report* Number 13/11. vi + 51 pp. (2013)
14. Rosin, C., Manhire, J., Moller, H., Saunders, C., McCusker, K., Saunders, J., Guenther, M., Reynolds, D., Busfield, W., Chanut, P. (2013). Evaluating Intensification Trajectories in the Context of Climate Change: a review of international literature and relevance to the New Zealand pastoral sector. *ARGOS Research Report 13/04*. 95 + ix pages.
15. MacLeod, C.J.; Moller, H. Monitoring to secure agro-environmental integrity in New Zealand [Synthesis chapter]. *ARGOS Research Report 13/10* 37 pp. (2013)
16. MacLeod, C.J.; Moller, H. Environmental monitoring for sustainable land management in New Zealand’s production landscapes. *ARGOS Research Report 13/08*. 96 + viii pages. (2013)
17. Moller H.; MacLeod C.J. Design criteria for effective assessment of sustainability in New Zealand’s production landscapes. *NZ Sustainability Dashboard Research Report 13/07*. ISSN 2324-5751 (Print). ISSN 2324-5700 (Online). 73 + vii pages. (2013)
18. Moller, H. Biocultural conservation benefits and risks from ecotourism on Kāpiti Island. *Ecosystems Consultants Report* Number 2013/01. 8+iii pages. (2013).
19. Moller, H. Patching Earth’s Quilt: planting trees for people, profit and the planet. *New Zealand Tree Grower* 34: 27-28. (2013)
20. Reynolds, D.; Busfield, W.; Chanut, P.; Rosin, C. Moller, H. Evaluating intensification trajectories in the context of climate change: development of a research database. *ARGOS Research Report* no. 13/03. (2013).
21. Akins, A.; Scott, N.; McCarthy, A.; Moller, H., Hepburn, C. Ngāi Tahu Marine Cultural Health Index 2013 User Manual. *He Kōhinga Rangahau* No. 16. 8 pp. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications]. (2013)
22. Schweikert, K., McCarthy, A., Akins, A., Scott, N., Moller, H., Hepburn, C. and Landesberger, F. (2012). A Marine Cultural Health Index for sustainable management of mahinga kai in Aotearoa - New Zealand. *He Kōhinga Rangahau* No. 15. 88 pp. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications].
23. Moller, S.I.; Moller, H. Environmental and Lifestyle Values at Tūmai Beach Sanctuary. *Ecosystems Consultants Report* No. 2012/03. 32 + v pages. (August, 2012).
24. Moller, S.; Moller, H. Translocation of seabirds to Cape Sanctuary: a summary of progress so far and prospects for the future. *Ecosystems Consultants Report* No. 2012/01. 22 + v pages. (June, 2012).
25. Manhire, J.; Moller, H.; Barber, A.; Saunders, C.; MacLeod, C.; Rosin, C.; Lucock, D.; Post, E.; Ombler, F.; Campbell, H.; Bengel, J.; Reid, J.; Hunt, L.; Hansen, P.; Carey, P.; Rotarangi, R.; Ford, S.; Barr, T. The New Zealand Sustainability Dashboard:

- Unified monitoring and learning for sustainable agriculture in New Zealand. *ARGOS Working Paper* No. 8. 40 + vi pages (2012).
26. Campbell, H.; Fairweather, J.; Manhire, J.; Saunders, C.; Moller, H.; Reid, J.; Bengé, J.; Blackwell, G.; Carey, P.; Emanuelsson, M.; Greer, G.; Hunt, L.; Lucock, D.; Rosin, C.; Norton, D.; MacLeod, C.; Knight, B. The Agriculture Research Group On Sustainability Programme: A Longitudinal and Transdisciplinary Study of Agricultural Sustainability in New Zealand. *ARGOS Research Report* No. 12/01. 119 + xi pp. (2012)
 27. Phipps, H.; Akins, A.; Moller, H.; Lyver, P.O'B.; Kahui, V.; Towns, D. Cross-cultural values for restoring coastal forest ecosystems in New Zealand. *Landcare Research Contract Report* LC 243. 135 pp. (2011)
 28. Peltzer DA, MacLeod CJ, Gormley AM, Perry M, Burrows L, Moller H, Bengé J 2011. Weed risk, plant biodiversity and carbon storage within kiwifruit orchard land titles. *Landcare Research Contract Report* LC626 to ZESPRI International Ltd and Bay of Plenty Regional Council, New Zealand.
 29. Newman, J.; Bragg, C.; Moller, H. (Editors). *Tītī Times*, Issue 22. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes 6 articles authored or co-authored by H Moller]. 20 pp. (August, 2010)
 30. Bengé, J., Hunt, L., Fairweather, J., Rosin, C., Moller, H. and Manhire, J. The relative importance of production, financial, environmental and social factors for kiwifruit orchardists - Results from a 2008 Survey of Attitudes and Opinions. *Kiwifruit Journal*. May/June: 44-47. (2010)
 31. Cooper M, Campbell H, Manhire J, Moller H, Rosin C, Norton S, Hunt L 2009. New Zealand Organic Sector Report 2010. *CSAFE Report*, 30 pp. (April 2010).
 32. Bengé, J.; Manhire, J.; Moller, H.; MacLeod, C. An Analysis of Drivers for Environmental Sustainability in the New Zealand Kiwifruit Industry, Performance and Possible Responses. Agriculture Research Group on Sustainability Report for Zespri International Ltd. 71 pp. (2010)
 33. Stephenson J, Moller H. Cross-cultural environmental research and management: challenges and progress. *Journal of the Royal Society of New Zealand* 39 (4):139-149. (2009)
 34. Nevins HM, Adams J, Moller H, Newman J, Hester M, Hyrenbach KD. International and cross-cultural management in conservation of migratory species. *Journal of the Royal Society of New Zealand* 39 (4): 183-185. (2009)
 35. Roa T, Beggs JR, Williams J, Moller H. New Zealand's Performance Based Research Funding model undermines Maori research. *Journal of the Royal Society of New Zealand* 39 (4): 233-238. (2009)
 36. Lyver PO'B, Jones C, Moller H. Looking past the wallpaper: considerate evaluation of Traditional Ecological Knowledge by science. *Journal of the Royal Society of New Zealand* 39 (4): 219-223. (2009)
 37. Fairweather, J.; Hunt, L.; Bengé, J.; Campbell, H.; Greer, G.; Lucock, D.; Manhire, J.; Meadows, S.; Moller, H.; Rosin, C.; Saunders, C.; Fukuda, Y. New Zealand farmer and orchardist attitude and opinion survey 2008: Characteristics of organic, modified conventional (integrated) and organic management, and of the sheep/beed, horticulture and dairy sectors. *ARGOS Research Report* 09/03. 267 pp. (October 2009)
 38. Fairweather, J.; Hunt, L.; Rosin, C.; Moller, H.; Norton, S. New Zealand farmer attitude and opinion survey 2008: management systems and farming sustainability. *ARGOS Research Report* 09/04. 63 pp. (October 2009)
 39. Newman, J. Moller, H. (Editors). *Tītī Times*, Issue 21. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes 6 articles authored or co-authored by H Moller]. (August, 2009)
 40. Bird, T.; Moller, H.; Scott, N.; Pirker, J. Traditional Māori and scientific methods for translocating and re-seeding pāua (*Haliotis iris*). *He Kōhinga Rangahau* No. 8. 92 pp. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications] (2009)
 41. Futter J & Moller H. Mātauranga, monitoring and management of toheroa (*Paphies ventricosa*) in Mirihiku. *He Kōhinga Rangahau* No. 7. 90 pp. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications] (2009)
 42. Coleman, G.; Bengé, J.; MacLeod, C.; Moller, H. Could fantails provide a marketing edge for NZ kiwifruit? *New Zealand Kiwifruit Journal*. July/August 18-23. (2009)
 43. Moller H.; Futter, J. A monitoring protocol to measure impacts of sudden die-back events on populations of Toheroa (*Paphies ventricosa*) on Southland beaches. *He Kōhinga Rangahau* No. 6. 30 pp. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications] (2009)
 44. Moller, J.S.; Moller, S.I.; Futter, J.; Moller, J.A.; Harvey, J.; White, H.; Stirling, F.; Stirling, F.F.; Moller, H. Potential impacts of vehicle traffic on recruitment of Toheroa (*Paphies ventricosa*) on oreti Beach, Southland, New Zealand. *He Kōhinga Rangahau* No. 5. 60 pp. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications] (2009)
 45. Pirker, J.; Kallqvist, E.; Moller, H.; Dyer, M.; Phillips-Zygadlo, H.; Shaw, E. (2008). Who is Catching What? A survey of fishing effort and success on the Ākaroa Taiāpure and Te Whaka a Te Wera Mātaimai. *He Kōhinga Rangahau* No. 4. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications]
 46. Meadows, S.; Gradwohl, M.; Moller, H.; Rosin, C.; Macleod, C.J.; Weller, F.; Blackwell, G.; Perley, C. Pathways for integration of biodiversity conservation into New Zealand's agricultural production. *New Zealand Journal of Agricultural Research* 51: 467–471. (2008) [Forum article]

47. Moller, H.; Blackwell, G.; Weller, F.; Macleod, C.J.; Rosin, C.; Gradwohl, M.; Meadows, S.; Perley, C. Social-ecological scales and sites of action: keys to conserving biodiversity while intensifying New Zealand's agriculture? *New Zealand Journal of Agricultural Research* 51:461-465. (2008) [Forum article]
48. Rosin, C.; Perley, C.; Moller, H.; Dixon, K. For want of the social, was the biodiversity battle lost? On need to approach social-ecological resilience through transdisciplinary research. *New Zealand Journal of Agricultural Research* 51: 481-484. (2008) [Forum article]
49. Bragg, C.; Downs, T.; Moller, H. Kaitiakitanga o kā Titi II. A Survey of Muttonbirding in the 2006 season. *University of Otago Wildlife Management Report: No. 218*. 105 pp. (2008)
50. Knight, B.; Moller, H.; Newman, J. (Editors). *Titi Times*, Issue 20. University of Otago, Dunedin. ISSN 1176-0338. October 2008. 16 pp. [Includes 6 articles authored or co-authored by H Moller].
51. Schweikert, K.; Moller, H.; Hepburn, C. Development of a Marine Health Index for effective management of mātaimai and taiāpure: a review of relevant indicators and design considerations. *He Kōhinga Rangahau* No. 2. 36 pp. University of Otago, Dunedin. [Online at: www.mahingakai.org.nz/publications] (2008)
52. Moller, H. Thirteen years on – a scientist's perspective of working with ngā kaitiaki o te Titi. *Te Taiao a Ruamahua* 3: 11-12. (July 2008)
53. Moller, H.; Dixon, K.; Schweikert, K.; Kirikiri, R.; (Editors). *Kai Kōrero*, Issue 2. University of Otago, Dunedin. ISSN 1176-5233. 32 pp. [Includes 4 articles authored/co-authored by H Moller]. (June, 2008)
54. Moller, H. et al. *Te Tiaki Mahinga Kai* www.mahingakai.org.nz. Writing and creation of a website for the Te Tiaki Mahinga kai Forum. [This involved writing >10 pages of material for the site, as well as editing material from others and designing the overall site to act as a tool for kaitiaki to better manage their mātaimai, taiāpure and s186 Temporary Closures (Institutionalised Rāhui)]. (2007)
55. Moller, H.; Kirikiri, R.; Lander, J. (Editors). *Kai Kōrero*, Issue 1. University of Otago, Dunedin. ISSN 1176-5233. 32 pp. [Includes 11 articles authored or co-authored by H Moller]. (December, 2007)
56. Bragg, C.; Clucas, R.; Fletcher, D.; Mckechnie, S.; Moller, H.; Newman, J.; Scott, D. Sustainability of Titi harvesting by Rakiura Māori. A report to Rakiura Māori for community peer review. University of Otago. 118 pp. + x. (June 2007)
57. Maegli, T.; Richards, S.; Meadows, S.; Carey, P.; Johnson, M.; Dixon, K.; Bengé, J. Moller, H.; Blackwell, G.; Weller, F.; Lucock, D.; Norton, D.; Perley, C. Environmental indicators from alternative farm management systems: signposts for different pathways to sustainable primary production in New Zealand. *ARGOS Research Report* No. 07/12. 85 pp. (July 2007)
58. Bengé, J.; Moller, H. Evaluation of artificial refuges for monitoring the relative abundance of geckos in kiwifruit orchards. *ARGOSnoteS* No. 17. 7 pp. [Online at: www.argos.org.nz] June 2007
59. Bengé, J.; Moller, H.; Hill, L.R. Survey of orchard floor vegetation in kiwifruit orchards. *ARGOnoteS* No. 16. 17 pp. http://www.argos.org.nz/Members/staff_publications.shtml (June 2007)
60. Moller, H.; Newman, J. (Editors). *Titi Times*, Issue 19. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes 11 articles authored or co-authored by H Moller]. (May, 2007)
61. Dillingham, P., McKechnie, S., Harper, G., Fletcher, D. and Moller, H. A model-based assessment of the impact of predator control on populations of Titi (sooty shearwaters; *Puffinus griseus*). Report prepared for Ka Mate Ngā Kiore (Kill the Rats) Incorporated Society. *University of Otago Wildlife Management Report* No: 206. 30 pp. (2007)
62. Moller, H., Hill, R., Haggerty, M., Manhire, J. Woody weed prevalence and spread on sheep/beef and dairy farms. *ARGOS Research Report* 06/06. (2006)
63. Manhire, J., Hill, R., Lucock, D., Emanuelsson, M., Moller, H. Prevalence of herbaceous weeds on South Island sheep/beef farms. *ARGOS Research Report* 06/05. (2006)
64. Hill, R., Moller, H., Lucock, D., Hunt, L., Manhire, J., Emanuelsson, M., Rosin, C. A Survey of weed management on South Island sheep/beef farms. *ARGOS Research Report* 06/02. (2006)
65. Blackwell, G., Haggerty, M., Manhire, J., Moller, H. Stream management: it really matters what you do on your own farm. *ARGOS Research Note* No. 28. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
66. Haggerty, M., Blackwell, G., Manhire, J., Moller, H. Monitoring stream health on farms. *ARGOS Research Note* No. 27. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
67. Bengé, J., Moller, H. Kiwifruit orchard floor vegetation. *ARGOS Research Note* No. 26. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
68. Clucas, R., Moller, H. Adult survival; what are the chances? *Titi Times* No. 18. Pp 1-2. (2006)
69. Bengé, J., Moller, H., Logan, D. Cicada species in kiwifruit orchards. *ARGOS Research Note* No. 23. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
70. Moller, H., Bengé, J., Richards, S. Annual monitoring of cicadas and spiders to indicate kiwifruit orchard health. *ARGOS Research Note* No. 22. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
71. Hewson, K., Bengé, J., Moller, H. Evaluation of bait-lamina test for assessing biological activity in soils on kiwifruit orchards. *ARGOS Research Note* No. 21. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
72. Blackwell, G., Rate, S., Moller, H., O'Neill, E., Buzzi, F., Clarke, D., Dearlove, T., Green, M., Wright, J., Richards, S. Birds on kiwifruit orchards. *ARGOS Research Note* No. 19. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)

73. Blackwell, G., Rate, S., Moller, H., O'Neill, E., Buzzi, F., Clarke, D., Dearlove, T., Green, M., Wright, J., Richards, S. Birds on sheep/beef farms. *ARGOS Research Note No. 18*. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
74. Blackwell, G., Rate, S., Moller, H., O'Neill, E., Buzzi, F., Clarke, D., Dearlove, T., Green, M., Wright, J., Richards, S. Bird sampling methods. *ARGOS Research Note No. 17*. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
75. Richards, S., Benge, J., Moller, H. Soil nematodes in kiwifruit orchards. *ARGOS Research Note No. 15*. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2006)
76. Blackwell, G., Haggerty, M., Burns, S., Davidson, L., Gnanalingam, G., Moller, H. Cleaner streams and improved stream health on North Island dairy and South Island sheep/beef farms. *ARGOS Research Report 06/03*. 98 pp. (2006)
77. Moller, H., Blackwell, G., Bragg, C., Newman, J., Scott, D. and Fletcher, D. Survey of Tītī abundance and harvest intensity on the Nilsen Manu, Moginui Island. *University of Otago Wildlife Management Report: Number No 801-1*. 20 pp. (2006)
78. Scott, D., Newman, J., Fletcher, D., Blackwell, G., McKechnie, S., Moller, H., Bragg, C. and Nevins, H. Survey of Tītī and mottle petrel abundance on Paopuka, Taukihepa. *University of Otago Wildlife Management Report: Number No 801-2*. 20 pp. (2006)
79. Moller, H., Newman, J., Scott, D., Bragg, C. and Fletcher, D. Survey of Tītī abundance and harvest intensity on the Potted Head manū, Taukihepa. *University of Otago Wildlife Management Report: Number No 801-1*. 20 pp. (2005)
80. Newman, J.; Bassett, S. and Moller, H. (Editors). *Tītī Times*, Issue 16. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes an article authored by H Moller]. (2005)
81. Benge, J.; Moller, H.; Emanuellson, M.; Rosin, C.; Fairweather, J.; Hunt, L.; Barber, A.; Manhire, J.. 2005. Enhancing kiwifruit sustainability – early results from ARGOS. *New Zealand Kiwifruit Journal*, Nov/Dec 2005. Pp 25 – 29.
82. Green, M.; O'Neil, E. Wright, J.; Blackwell, G.; Moller, H. 2005. Interspecific interaction and habitat use by Australian magpies (*Gymnorhina tibicen*) on sheep and beef farms, South Island, New Zealand. *ARGOS Research Report 05/07*.
83. Blackwell, G.; O'Neil, E.; Buzzi, F.; Clarke, D.; Dearlove, T.; Green, M.; Moller, H.; Rate, S.; Wright, J. 2005. Bird community composition and relative abundance in production and natural habitats of New Zealand. *ARGOS Research Report 05/06*.
84. Moller, H.; Wearing, A.; Pearson, A., Perley, C.; Steven, D.; Blackwell, G.; Reid, J.; Johnson, M. *Environmental Monitoring and Research for Improved Resilience of New Zealand Agriculture*. Agriculture Research Group on Sustainability, Dunedin. *ARGOS Working Paper No. 6*. 2005. 136 pp.
85. Moller, H. Statistical hypothesis testing on ARGOS farms – some pros and cons of different approaches. *ARGOSnoteS No. 14*. 14 pp. [Online at: www.argos.org.nz] 2005
86. Hewson, K.; Moller, H. A pilot evaluation of prey facsimiles to compare the relative abundance of invertebrate predators in kiwifruit orchards, February 2005. *ARGOSnoteS No. 12*. 3 pp. [Online at: www.argos.org.nz] 2005.
87. Wearing, A.; Benge, J.; Moller, H. 2005. Baseline habitat survey of ARGOS Kiwifruit orchards. *ARGOSnoteS No. 11*. 64 pp. [Online at: www.argos.org.nz] 2005.
88. Benge, J.; Moller, H. Evaluation of artificial cover objects for monitoring the relative abundance of lizards on ARGOS Kiwifruit orchards. *ARGOSnoteS No. 10*. [Online at: www.argos.org.nz] 2005. 7 pp.
89. Blackwell, G.; Rate, S.; Moller, H. ARGOS biodiversity surveys on kiwifruit and Sheep/beef farms in summer 2004/05: rationale, focal taxa and methodology. *ARGOS Report No. 05/05*. 35 pp. [Online at: www.argos.org.nz] (2005)
90. Pearson, A.; Reid, J.; Benge, J.; Moller, H. 2005. Soil quality on ARGOS kiwifruit orchards 2004-2005. *ARGOS Research Report 05/02*.
91. Moller, H. (Editor). *Tītī Times*, Issue 15. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes 8 articles authored or co-authored by H Moller]. (2005)
92. Moller, H. Towards transdisciplinary research within ARGOS: an ecologist's suggestions for process and research priority setting. *ARGOSnoteS No. 9*. [Online at: www.argos.org.nz] 2004. 48 pp.
93. Moller, H.; Fairweather, J. Broadening research focus and strengthening ethical safeguards within ARGOS. *ARGOSnoteS No. 8*. [Online at: www.argos.org.nz] 2004. 12 pp.
94. Moller, H. Testing causality now that we have lost the BACI experiment. *ARGOSnoteS No. 7*. [Online at: www.argos.org.nz] 2004. 5 pp.
95. Fairweather, J.; Moller, H. BACI Postponed: (B)ACI with paired samples plus time since conversion. *ARGOSnoteS No. 5*. [Online at: www.argos.org.nz] 2004. 6 pp.
96. Moller, H. Co-management of a bicultural research project: a research provider's perspective. In: Proceedings of UNESCO Pacific Sub-regional Experts' Workshop on Indigenous Science and Traditional Knowledge. New Zealand National Commission for United Nations Educational Scientific and Cultural Organisation, Wellington. (2005)
97. O'Connor, B., Moller, H., Balks, M., Hughes, B. Te Whare Wānanga o Awanuiārangī Bachelor of Environmental Studies (BES) Te Tohu Paetahi Taiao Programme Review, 27 - 29 October 2004. Unpublished report to Dean of Science, Te Whare Wānanga o Awanuiārangī. (2004)
98. Moller, H. Assessment of Kaitiakitanga Stream Papers for Bachelor of Iwi Environmental Management (B.IEM). Unpublished report to Te Whāre Wānanga o Aotearoa. 7 pp. (2004)

99. Steven, D., Benge, J; & Moller, H. Spiders in Kiwifruit Orchards. *ARGOS Research Note* No. 6. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2004)
100. Benge, J; Steven, D., & Moller, H. Cicadas in Kiwifruit Orchards. *ARGOS Research Note* No. 4. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2004)
101. Fairweather, J., Moller, H. Transdisciplinary research. *ARGOS Research Note* No. 3. 2 pp. [Online at <http://www.argos.org.nz/ResearchNotespage.shtml>]. (2004)
102. Clucas, R. (Editor). *Tītī Times*, Issue 14. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes six articles authored by H Moller]. (2004)
103. Newman, J.; Moller, H. (Editors). *Tītī Times*, Issue 13. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes an article authored or co-authored by H Moller]. (2004)
104. Moller, H. (Editor). *Tītī Times*, Issue 12. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes 10 articles authored or co-authored by H Moller]. (2003)
105. Bragg, C.R., Moller, H., Scott, D.S., Newman, J., McKecknie, S., & Fletcher, D.A. Survey of Tītī Abundance on Four unharvested Putauhinu Nuggets. *University of Otago Wildlife Management Report: Number No 801-5*. 25 pp. (2003)
106. Moller, H. Kaitiakitanga o kā Tītī I. A Māori Community's view of a science project to protect a customary wildlife harvest. *University of Otago Wildlife Management Report: No. 801-2*. 105 pp. (2003)
107. Moller, H., Newman, J., Scott, D.S., McKecknie, S., Bragg, C, R., & Fletcher, D. A Survey of Tītī Abundance on the Timore Island (The Chimney). *University of Otago Wildlife Management Report: Number 801-6*. 22 pp. (2003)
108. Moller, H.; Nevins, H. M.; Adams, J. The Rakiura Tītī Restoration Project: Mitigation of the *Command* oil spill injury by eradication of rats from Sooty Shearwater breeding colonies in New Zealand. 78 pp. Unpublished Report for Rakiura Tītī Islands Administering Body, January 2003. (2003)
109. Spurr, E.B.; Ragg, J.R.; O'Connor, C.E.; Hamilton, W.J.; Moller, H.; Woolhouse, A.D.; Morse, C.W.; Morriss, G.A.; Arnold, G.C.; Clapperton, B.K. R-10490 Anal Gland Scent as a Novel, Cost-Effective Method of Attracting Ferrets. Landcare Research Contract Report: LC0203/142. 18 pp. (2003)
110. Newman, J., Scott, D.S., Moller, H. & Fletcher, D. A Survey of Tītī Abundance and Harvest Intensity on Pukeweka Island. University of Otago Wildlife Management Report: Number 801-10. 26 pp. (2002)
111. Scott, D.S., Newman, J., Uhlmann, S., Fletcher, D., & Moller, H. A Survey of Tītī Abundance and Harvest Intensity on Betsy Island. *University of Otago Wildlife Management Report: Number 801-9*. 20 pp. (2002)
112. Newman, J.; Moller, H. (Editors). *Tītī Times*, Issue 11. University of Otago, Dunedin. ISSN 1176-0338. 16 pp. [Includes 3 articles authored or co-authored by H Moller]. (November 2002)
113. Scott, D.S., Newman, J., Uhlmann, S., Fletcher, D., & Moller, H. A Survey of Tītī Abundance and Harvest Intensity on Waitakua manu, Taukihepa. *University of Otago Wildlife Management Report: Number 801-8*. 18 pp. (2002)
114. Moller, H.; Ragg, J.R.; Bowman, R.; Hunter, M.; Reed, C. Improved monitoring and control of ferret abundance for efficient bovine tuberculosis mitigation. *Ecosystems Consultants Report No. 23*. 187 pp + xxii. (2002)
115. Moller, H.; Ragg, J.R.; Cameron, C.M.; Barker, R.J. Feral ferret (*Mustela furo*) abundance, survival and trappability in pastoral habitats of south island, New Zealand. Pp 1 – 69 in: Moller, H.; Ragg, J.R.; Bowman, R.; Hunter, M.; Reed, C. 2002. *Improved monitoring and control of ferret abundance for efficient bovine tuberculosis mitigation*. Ecosystems Consultants Report No. 23. 187 pp + xxii. (2002)
116. Moller, H.; Fletcher, D.; Ragg, J.R. Estimating feral ferret (*Mustela furo*) abundance and control efficacy by ink-print tracking and trapping. Pp 70 – 136 in: Moller, H.; Ragg, J.R.; Bowman, R.; Hunter, M.; Reed, C. 2002. *Improved monitoring and control of ferret abundance for efficient bovine tuberculosis mitigation*. Ecosystems Consultants Report No. 23. 187 pp + xxii. (2002)
117. Ragg, J.R.; Moller, H.; Bowman, R.; Hunter, M.; Reed, C; Fletcher, D. Improved strategies for control of feral ferrets (*Mustela furo*) for protection of cattle and deer from bovine Tuberculosis (*Mycobacterium bovis*). Pp 137 - 187 in: Moller, H.; Ragg, J.R.; Bowman, R.; Hunter, M.; Reed, C. 2002. *Improved monitoring and control of ferret abundance for efficient bovine tuberculosis mitigation*. Ecosystems Consultants Report No. 23. 187 pp + xxii. (2002)
118. Scott, D.S.; Moller, H. (Editors). *Tītī Times*, Issue 10. University of Otago, Dunedin. ISSN 1176-0338. 16 pp. [Includes 3 articles authored or co-authored by H Moller]. (July 2002)
119. Moller, H. Tītī harvests at Taukihepa, 1958 – 1983. Unpublished University of Otago Report to Manu Owners. 66 pp. [Confidential] (2002)
120. Moller, H. Tītī harvests from an island east of Rakiura, 1983 – 2002. Unpublished University of Otago Report to Manu Owners. [Confidential]. 72 pp. (2002)
121. Newman, J.; Moller, H. (Editors). *Tītī Times*, Issue 9. University of Otago, Dunedin. ISSN 1176-0338. 16 pp. [Includes 4 articles authored or co-authored by H Moller]. (November 2001)
122. Newman, J., Scott, D.S., Söhle, I., Moller, H. & Fletcher, D. A Survey of Tītī Abundance and Harvest Intensity on Pikomamaku-nui Island. *University of Otago Wildlife Management Report: Number 801-6*. 21 pp. (2001)
123. Scott, D., Newman, J., Fletcher, D., Charleton, K., & Moller, H. A Survey of Tītī Abundance and Harvest Intensity on Pohowaitai Island. *University of Otago Wildlife Management Report: Number 801-7*. 19 pp. (2001)

124. Scott, D.S., Newman, J., Fletcher, D., Charleton, K., & Moller, H. A Survey of Titi Abundance and Harvest Intensity on Paratamanu, Murderer's Cove Taukihepa. *University of Otago Wildlife Management Report: Number 801-5*. 18 pp. (2001)
125. Moller, H. Bicultural and treaty of Waitangi initiatives for science teaching and research at the University of Waikato. Unpublished report. 17 pp. (2001)
126. Moller, H. Conservation risks and benefits of overnight stays by ecotourists at Kapiti Nature Lodge. *Ecosystems Consultants Report 19*. 35 pp. (2001)
127. Hamilton, W. J. and Moller H. "Use of focal species to monitor the effects of exotic forestry management on indigenous species within West Coast exotic forests." *Ecosystems Consultants Report 18*. (2001)
128. Moller, H.; Hamilton, W.J.; Hutcheson, J.; Perley, C. Towards safeguarding New Zealand's Agricultural Biodiversity: a database of publications, research projects and applications. *Ecosystems Consultants Report 22*. 1969 pp. (2001)
129. Perley, C.; Moller, H.; Hamilton, W.J.; Hutcheson, J. Towards safeguarding New Zealand's Agricultural Biodiversity: Research gaps, Priorities and potential case Studies. *Ecosystems Consultants Report 23*. 230pp. (2001)
130. Jones, C.; Moller, H.; Hamilton, W.J. Potential Techniques for Marking Stoats to Determine Optimum Spacing of Tracking Tunnels, Bait Stations and Traps. *Ecosystems Consultants Report 24*. 30 pp. (2001)
131. Moller, H. The Great Opoho Possum Hunt: a census of Brushtail possums living in suburban Dunedin. Unpublished Report for Room 2, Opoho Primary School. 42 pp. [A teaching resource report of a two week teaching module led by Henrik Moller]. (2001)
132. Howard, M. & H. Moller (Eds.). *He Minenga Whakatū Hua o Te Ao 'Sustaining the fruits of the land'*. Proceedings of a hui, Murihiku Marae 25 - 27 August 2000. Online at: <http://www.otago.ac.nz/Zoology/hui> (2001)
133. Moller, H. Co-management of a bicultural research project: a research provider's perspective. In: Howard, M. & H. Moller (Eds.). *He Minenga Whakatū Hua o Te Ao 'Sustaining the fruits of the land'*. Proceedings of a hui, Murihiku Marae 25 - 27 August 2000. Online at: <http://www.otago.ac.nz/Zoology/hui> (2001)
134. Moller, H. A survey of public attitudes about harvests of New Zealand animals and plants. In: Howard, M. & H. Moller (Eds.). *He Minenga Whakatū Hua o Te Ao 'Sustaining the fruits of the land'*. Proceedings of a hui, Murihiku Marae 25 - 27 August 2000. Online at: <http://www.otago.ac.nz/Zoology/hui> (2001)
135. Lyver, P.; Moller, H.; Thompson, C. Changes in titi (*Puffinus griseus*) chick production and harvest precede ENSO events. Poster Abstract in: Howard, M. & H. Moller (Eds.). *He Minenga Whakatū Hua o Te Ao 'Sustaining the fruits of the land'*. Proceedings of a hui, Murihiku Marae 25 - 27 August 2000. Online at: <http://www.otago.ac.nz/Zoology/hui>. (2001)
136. Uhlmann, S.S.; Scofield, P.; Moller, H.; Fletcher, D. Sex bias in bycatch rates of Sooty Shearwaters in New Zealand's trawl fisheries - gentlemen before ladies? Poster Abstract in: Howard, M. & H. Moller (Eds.). *He Minenga Whakatū Hua o Te Ao 'Sustaining the fruits of the land'*. Proceedings of a hui, Murihiku Marae 25 - 27 August 2000. Online at: <http://www.otago.ac.nz/Zoology/hui>. (2001)
137. Moller, H.; Ragg, J.; Fletcher, D. Estimating ferret (*Mustela furo*) abundance. Pp 19 – 22. In: Proceedings of Animal Health Board Ferret Workshop, Christchurch, 26 November 2001. (2001)
138. Newman, J., Russell, D., Scott, D.S., Fletcher, D., & Moller, H. A Survey of Titi Abundance and Harvest Intensity on manu Maaka Horomanupatu, Murderer's Cove, Taukihepa. *University of Otago Wildlife Management Report: Number 801-4*. 19 pp. (2001)
139. Moller, H. (Editor). *Titi Times*, Issue 8. (Special Science and Mātauranga Edition). University of Otago, Dunedin. ISSN 1176-0338. 28 pp. [Includes 14 articles authored or co-authored by H Moller]. (June 2001)
140. Moller, H., Newman, J., Scott, D.S., & Fletcher, D. A Survey of Titi Abundance and Harvest Intensity on the Bragg manu, Tia Island. *University of Otago Wildlife Management Report: Number 801-2*. 20 pp. (2000)
141. Moller, H., Newman, J., Scott, D.S., & Fletcher, D. A Survey of Titi Abundance and Harvest Intensity on the Campbell manu, Ernest Island. *University of Otago Wildlife Management Report: Number 801-11*. 19 pp. (2000)
142. Newman, J., Scott, D.S., Uhlmann, S., Fletcher, D., & Moller, H. A Survey of Titi Abundance and Harvest Intensity on Manuaroto manu, Murderer's Cove, Taukihepa. *University of Otago Wildlife Management Report: Number 801-3*. 19 pp. (2000)
143. Spurr, E.B.; Ragg, J.R.; O'Connor, C.E.; Moller, H.; Morse, C.W. Seasonal Constraints on Ferret Control. Landcare Research Contract Report: LC9900/112: *Ecosystems Consultants Report no. 16*. 24 pp. (2000)
144. Hamilton, W.J; Moller, H. Use of brodifacoum and cyanide poisons to control introduced small mammals in New Zealand forests brings net conservation benefit. *Ecosystems Consultants Report No. 17*. 36 pp. (2000)
145. Moller, H. Peer Review of the Goals, Design and Methods of the Titi Research Project. Unpublished report to Rakiura Titi islands Committee and the Southern Islands Area team, Department of Conservation, Southland. 43 pp. (2000)
146. Uhlmann, S.S.; Moller, H. Fisheries bycatch: Does it threaten the long-term sustainability of sooty shearwater (*Puffinus Griseus*) harvest by Rakiura Māori? *Proceedings of Conservation of Arctic Flora and Fauna (CAFF) workshop on seabird bycatch in the waters of arctic countries, Dartmouth, Nova Scotia, 26-28 April, 2000*. (2000)
147. Moller, H. (Editor). *Titi Times*, Issue 7. University of Otago, Dunedin. ISSN 1176-0338. 20 pp. [Includes 10 articles authored or co-authored by H Moller]. (February 2000)
148. Spurr, E.B.; Ragg, J.R.; O'Connor, C.E.; Moller, H.; Morse, C.W. Seasonal Constraints on Ferret Control. Landcare Research Contract Report: LC9900/112: *Ecosystems Consultants Report no. 16*. 24 pp. (2000)

149. Newman, J., Scott, D.S., Fletcher, D., & Moller, H. A Survey of Tītī Abundance and Harvest Intensity on the Young manū, Tia Island. *University of Otago Wildlife Management Report*: Number 801-1. 20 pp. (2000)
150. Hamilton, W.J; Moller, H. Use of brodifacoum and cyanide poisons to control introduced small mammals in New Zealand forests brings net conservation benefit. *Ecosystems Consultants Report No. 17*. 36 pp. (2000)

An additional 94 non-peer reviewed items before 2000 include research on: Tb control (4); co-management of the environment with Māori (4); ecology and sustainable harvest of tītī (muttonbird) harvesting (13); other wildlife harvesting issues (5); ecology and control of small mammalian pests for conservation (20); threatened and native species (8); invasive species and wasps (24); beech forest ecology(6); environmental management (2); teaching resources (4); and bee keeping; (1).

Keynote and invited addresses

1. Invited speaker, “*Looking after your ground: a sustainability dashboard for sheep & beef farming?*”. Beef + Lamb New Zealand Central South Island Farmer Council, Cromwell, 15 October 2015.
2. Invited speaker, “*Biodiversity indicators for agricultural sustainability assessment: a needs analysis*”. Environmental DNA – The Next Generation of Biodiversity Assessment EndUser Workshop, Wellington, 28 September 2015.
3. Invited speaker, “*Sustainability: a bureaucratic burden or a chance to learn and earn?*”. Beef + Lamb New Zealand Canterbury Environment Forum, Christchurch, 18 August 2015.
4. Invited plenary speaker, “*Integration of biosecurity management into whole farm sustainability assessments: a sustainability dashboard tool for linking stakeholders in production landscapes*”. NETS 2015 conference, New Zealand Biosecurity Institute, 26-28 August 2015, Dunedin. .
5. Invited speaker, “*Assessing your farm’s sustainability: a bureaucratic burden or a chance to learn and earn?*”. Clutha Agricultural Development Board, AGM, Balclutha, 25 March 2015.
6. Invited speaker, “*New Zealand’s Sustainability Dashboard: future-proofing agriculture for all New Zealanders*”. University of Otago Winter Lecture Series; Wellington 4 June 2014; Auckland 5 June 2014. The Wellington version is podcast at: www.youtube.com/watch?v=sNg_QR35-jM
7. Invited speaker, “*Conservation for People, Profit and the Planet*”. Business and the environment: Opportunities for partnership symposium of the Bluegreens Forum, Kaikoura, 15 March 2014.
8. Invited speaker, Joint United Nations and Kanazawa University forum, Kanazawa, Japan (International Workshop on Sustainable Management of Socio-Ecological Production Landscapes in Noto): “*Design of Indicators for Co-management of Production Landscapes: Joining Science, Traditional and Local Knowledge, Policy Expertise and Consumers for Sustainability*”. 10 February, 2014.
9. Keynote speaker, Joint United Nations and Kanazawa University forum, Kanazawa, Japan (International Workshop on Sustainable Management of Socio-Ecological Production Landscapes in Noto) public Forum: “*Indicators for Co-management of Production Landscapes: Joining science, Traditional and Local Knowledge, policy expertise and consumers for sustainability*”. 11 February, 2014.
10. Keynote speaker, Southern Institute of Tecnologogy (Expo: Biodiversity in your Back Yard), 13 July 2013: “*Rebuilding biodiversity for people, profit and the planet*”.
11. Invited speaker, University of Bern, Swizerland, 26 March 2013. “*Partnership of academics and practitioners for more resilient social-ecological systems: experiences from New Zealand*”.
12. Joint Keynote speaker (with Hugh Campbell), 10th European International Farming Systems Association Symposium, 1-4 July 2012 in Aarhus, Denmark. “*Achieving Sustainability via Eco-labels? Examining the social and ecological dynamics of the ‘Food from Somewhere’ Regime*”.
13. Invited speaker, New Zealand Farm Forestry Association, annual conference Field day, Vederburn Farm, Otago (13 April 2012).
14. Inaugural professorial lecture, University of Otago, 25th November 2010. “*Science and Mātauranga Māori: a powerful mix?*”
15. Invited speaker, Kingitanga Symposium,
16. Waikato University, 21st April 2010. *Science and Mātauranga Māori: do they mix?*
17. Invited Panel Discussant: Kingitanga Symposium, Waikato University, 21st April 2010. “*Engagement with Iwi, Mātauranga Māori and Science*”
18. Invited keynote speaker, *Auckland seabirds: Conservation, Restoration & Research*; Centre for Biodiversity & Biosecurity, University of Auckland, 16th April 2010. *Cross-cultural partnership for seabird conservation and restoration*.
19. Invited plenary panel discussant, *Auckland seabirds: Conservation, Restoration & Research*; Centre for Biodiversity & Biosecurity, University of Auckland, 16th April 2010. *Do we need an Auckland Seabird restoration Strategy?*
20. Invited speaker (with Corey Bragg), Making research a two-way process – University of Otago’s Higher Education Development Centre. *Cross-cultural Participatory Action Research partnerships*, 6 October 2009.
21. Invited speaker, Kāweī Ika Moana - First Nations’ Futures Forum (Ngāi Tahu, Te Puni Koōkiri). “*Whakamana whānau: Constraints and enablers for partnership between customary, recreational and commercial fishers*. Dunedin Public Art Gallery, 14 February 2009.

22. Invited speaker, Māori Business Symposium, Muramura Ahi Kaa Ki Uta, Muramura Ahi Kaa Ki Tai - Intergenerational Wealth: Re-igniting Indigenous Economies. 25 & 26 August 2008, University of Otago. *Co-management of research for sustainable Māori business: a tauiwi perspective.*
23. Invited speaker, Clutha Agriculture Development Board, Annual General Meeting, Balclutha, 19 March 2008. *Climate Change in Farming: A need to build resilience in farming Practice for Sustainability.*
24. Invited speaker, New Zealand Association for Environmental Education 10th National conference, University of Otago, Dunedin, 16 January 2008. *Climate Change Challenges for Aotearoa's environmental educators.*
25. Invited speaker, University of Canterbury Geography Department seminar series. *Kia Mau te Tītī Mo Ake Tōnu: A cross-cultural research partnership using science and mātauranga to secure muttonbirding for Rakiura Māori mokopuna.* October, 2007.
26. Invited speaker, University of Canterbury *Tu Mai Paerua* Māori and Indigenous Doctoral Mentoring Programme: *Te Tiaki Mahinga Kai: a new project to enhance kaitiakitanga on mātauitai and taiāpure.* September 2007.
27. Invited speaker, University of Otago National Identity Seminar Series, September 2007, Wellington: *Identity and the role of national parks: getting beyond preservationism and embracing kaitiakitanga to become 'Native to this place'.* Attended by invitation only by ca. 40 officials from Department of Conservation, Ministry for Environment, Treaty Settlement Office and other government agencies.
28. Invited speaker, New Zealand Geographical Society (Otago Branch): *Cross-cultural exploration of Traditional Ecological Knowledge and ecology to guide tītī (muttonbird) harvesting: Reflections of 13 years of partnership between Rakiura Māori and the University of Otago.* September 2007.
29. Invited speaker, Geography Department seminar series, University of Otago. *Intensification of New Zealand Agriculture Since 1960: Causes consequences and prospects for the future.* May 2007.
30. Invited speaker, Federated Farmers (High Country Branch) Biennial Conference, Wanaka. *The Future of High Country Farming.* April 2007.
31. Keynote speaker, New Zealand Ornithological Society Conference, Wellington, June 2006 ('Sooty shearwaters across the Pacific: a long term study of tītī behaviour and population ecology for harvest sustainability and island restoration').
32. Invited speaker, University of Waikato, Hamilton, May 2006, Joint seminar for School of Biological Sciences and School of Māori and Pacific Development ('*Kia Mau Te Tītī Mo Ake Tōnu Atu: Mātauranga Māori and science to keep the tītī forever.*')
33. Invited speaker, Agricultural intensification in New Zealand, HortResearch, Te Puke, November 2005.
34. Invited speaker, Agricultural intensification and biodiversity impacts, Copenhagen Technical University, Denmark, September 2005 (2 presentations).
35. Invited speaker, AgResearch Seminar Series, Invermay, April 2005. ('ARGOS: a transdisciplinary team approach for improved agroecosystem resilience).
36. Keynote speaker, '*Science for Community Change*' workshop with Ngāti Porou whānui, Te Puka, East Coast, 2005. ('Co-management of environmental research and management by Māori and Pākehā: philosophy, politics and the practicalities of partnership') (Talk and discussion).
37. Invited speaker, Royal Society Seminar, Napier, 2005. ('The application of Mātauranga Māori and science to assess the sustainability of a traditional seabird harvest by Rakiura Māori').
38. Keynote speaker, Te Rōpu Whakahau (professional association for Māori who work in libraries and information management) annual conference, Te Rau Aroha marae, Bluff, 2004. ('Intellectual Property rights in the *Kia Mau Te Tītī Mo Ake Tōnu Atu* research project').
39. Invited speaker, Te Tumu Seminar series, University of Otago. ('*Kia Mau Te Tītī Mo Ake Tōnu Atu*'), 2004.
40. Invited public presentation as the University of Otago Science Division's contribution to Te Rangi Hiroa Centenary celebrations, 2004. ('Becoming native to this place: Cross-cultural applications of environmental management and science for improved sustainability').
41. Invited speaker, Bicultural approaches to conservation science, Department of Conservation Science & Research seminar, Wellington, 2003. ('Bicultural research for improved conservation management in Aotearoa').
42. Keynote speaker, Society of Friends (Quakers) annual gathering, Hamilton, 2001. ('Eco-spirituality, Eco-justice and becoming native to this place').
43. Invited speaker, UNESCO South Pacific Workshop, Victoria University marae, Wellington, 2001 ('Building research partnerships with Māori').
44. Invited panel discussant on modeling seabird bycatch, Joint MAF and DoC workshop on seabird bycatch, Auckland, 2000.
45. Keynote speaker, Otago Regional Council regional workshop for the New Zealand Biodiversity Strategy, 1999.
46. Keynote speaker, joint Australia and New Zealand Ecological Society Conference, November 1998.
47. Invited speaker and panel discussant on WAI 262 (Intellectual property rights and management of native species by Māori), Otago Institute Public Meeting, 1998.
48. Invited speaker and panelist, Otago Institute public forum on WAI262 ('Intellectual property rights and the management of New Zealand biota by Māori'); 1997.
49. Invited speaker at the International Congress of the International Union for Conservation of Nature, Montreal; IUCN; 1996.
50. Invited chair on conference on Reintroduction of Extinct Mammals to Scotland; The Mammal Society; 1995.

51. Invited speaker on Transmission of Tb by Wildlife; Zoological Institute, London; 1995.
52. Invited speaker at Invasion Biology Workshop; University of California at Davis; 1994.
53. Invited speaker on Customary Use of Wildlife; Department of Conservation, (Wellington) Biodiversity Series; 1994.
54. Invited speaker on Bicultural Approaches to Conservation Management; NZ Conservation Authority; 1994.
55. Invited speaker and chair of two sessions; Predator/prey workshop; Rabbit & Land Management Programme; 1992.
56. Keynote speaker; Zoology Department Student Colloquium, University of Otago; 1989.

AudioVisual Recordings

1. Advisor to Natural History New Zealand's production of *Mutant Planet* –mega-series commissioned by Discovery Science, Animal Planet, France 5 and NHK (Japan). (July 2010)
2. Interviewee for Te Tiaki Mahinga Kai. Produced by Louise Davidson. Recorded at Puketeraki Marae for www.mahingakai website introduction. (2007)
3. Interviewee for "The Tītī Islands – A paradise restored". This film features the Rakiura Tītī Restoration Project which sprang from the *Kia Mau Te Tītī Mo Ake Tōnu Atu* research project. A grant was received from the Command Oil Spill Trustee Council (California, USA) to eradicate rats from four Tītī Islands and this 50 min film was made for educational and advocacy reasons and to assist community vigilance to maintain pest quarantine programmes instigated after the eradication. (2007)
4. Interviewee for "Tagging tītī: Research to reveal climate secrets". Documentary on DVD. Written and produced by Wiebke Finkler, Jamie Newman and Henrik Moller. University of Otago: Green concrete films. (2004)
5. Interviewee for "Seabirds predict weather". Documentary on DVD. Written and produced by Wiebke Finkler, Jamie Newman and Henrik Moller. University of Otago: Green concrete films. (2004).
6. Advisor for NKH, the main Japanese natural history television producers to make two full-length documentaries on tītī and The Snares island ecosystem, and the BBC to make another island ecology.
7. Produced and presented "The Genetic Engineering Debate", a 50-minute teaching video of a debate between the Minister of Science and local Green's candidate.
8. Interviewee for "The Timberlands Debate", a 30-minute teaching video used for 3rd year teaching. Produced by Dr L Slooten and A Smith with HEDC. 1999.
9. Produced and presented "Honeydew a South Island beech forest resource" a 24 minute teaching VHS video: I planned and presented this video, advised on editing and production; then wrote pamphlets, bibliographies, assessment tests, class and field exercises and a glossary to complement the video. 1987.
10. I have advised and been interviewed (1984–1990) for:
 - 3 TVNZ "Spot-on" programmes about my research
 - a full length feature on wasps and wasp control for TVNZ's "Wildtrack" programme
 - a third length feature on weta ecology and behaviour for TVNZ's Wildtrack programme
 - 2 Wild South TVNZ productions on general themes of New Zealand's natural history.

Service to public sector, statutory authorities, committees and inquiries and other Universities

- *Public and RMA submissions on road widening in Caversham valley which potentially threatens a nationally significant peripatus population (2011) and proposed sewage discharge to St Kilda Beach (2007).*
- *Review submissions on UoO Research & Enterprise Office (2010); Victoria University of Wellington to review of its Centre for Marine Environmental & Economic Research Centre (2011); UoO to review of its consultation with Māori policy.*
- *PBRF Repeated submission to Tertiary Education Commission on the failure of Performance Based Research Funding procedures to support Vision Mātauranga research and to support locally embedded applied scholarship (2009). I spearheaded publication of a paper in support of this analysis (ie. Roa T, Beggs JR, Williams J, Moller H. New Zealand's Performance Based Research Funding model undermines Maori research. Journal of the Royal Society of New Zealand 39 (4): 233-238. 2009). This paper formed the basis of a discussion and development of a strategy to minimise the impacts of PBRF within the māori academic community at University of Auckland (February 2010).*
- *Applied ecology advice (meetings or correspondence, submissions)*
 - Forest & Bird and Birdlife International) on databases for establishing Marine Important Bird areas for New Zealand (http://www.birdlife.org/action/science/sites/marine_ibas/index.html)
 - Parliamentary Commissioner for Environment (2009) on water and fisheries management
 - A coalition of iwi establishing a "mainland Island" sanctuary near Whanganui (2009).
 - NZ Conservation Authority on customary use of wildlife (1994-1996)
 - Dunedin City Council (1998-2000) on issues of conservation in city forests
 - DoC Otago, DoC Waikato, DoC Northland, DoC Southland, DoC Canterbury (1992- present)
 - DoC Science & Research, Wellington (1994-1996) on issues of customary use of wildlife
 - Otago Regional Council (1993-1998) on rabbit and ferret control
 - Wellington Regional Council on pest control strategies (1994)
 - Environment Southland on pest control strategies (1994-2000)

- Animal Health Board on Tb control (1994-1999)
- Canada's National Round Table on the Economy and the Environment (on issues of co-management of Atlantic fisheries) (1996)
- Parliamentary Select Committee on the Ngāi Tahu Settlement Bill (1996)
- Peer review of 3 chapters of the Draft New Zealand Biodiversity Strategy (Ministry for Environment and Department of Conservation working party) in 1997
- MAF public hearings process on Sustainable Use of Beech Forests (1995)
- Parliamentary Commission for the Environment, Strategic Planning workshop (2002)
- My request to the Parliamentary Commissioner for Environment to investigate the sustainable use of indigenous biota, following the abuse of science by vested interests in the Timberlands West Coast debate (1998 and 1999), led to their nationwide investigation and review (*Weaving Resilience into the Land*). I also contributed a submission to that review.
- Local rūnaka of the Kāi Tahu on research needs and establishing a coastal area bibliographic database
- World Wide Fund for Nature NZ on Yellow-eyed penguin conservation and funding applications
- IUCN (service on two international expert panels)
- Otago Peninsula Landcare Group on prospects for possum eradication
- Otago Peninsula Trust on Taiaroa head restoration and education programme
- Penguin Place (Otago Peninsula) on predator management
- Katiki Point Lighthouse Reserve on Yellow-eyed penguin and other seabird restoration
- Southland Salmon Anglers Association on salmon releases
- National Fish & Game Council on gamebird habitat restoration
- Southland Conservation Board on return of the Crown Tītī Islands to Ngāi Tahu
- Grass Roots Institute (a coalition of 50 farmers from Bay of Plenty seeking to assert their role as land stewards through the Resource Management Act).
- Crop & Food Research's '*Science for Community Change*' scientists. This was followed up by a two-day tour of Crop & Food's projects on the East Coast with Ngāti Porou hapu groups to talk to the kaitiaki and wider research team. The experiences of research building research partnerships with Rakiura Māori were highlighted in a public address at Te Puka, East Coast, 2005. ('Co-management of environmental research and management by Māori and Pākehā: philosophy, politics and the practicalities of partnership').

Service to External Academic and Professional Activities

- Invited participant in a hui wānanga convened by Te Hau Mihi Ata (www.waikato.ac.nz/provcmāori/research/tehaumihiata/index.shtml), a Māori FRST-funded research project looking for synergies between science and Mātauranga; 15th & 16th November, 2010, Taupō.
- My *Kia Mau Te Tītī Mo Ake Tōnu Atu* research project model featured prominently in national debates about Māori knowledge and science, including a Waitangi Tribunal Hearing of the WAI262 "Fauna and Flora" claim by several iwi in hearings in 2007. Our project's "Cultural safety Contract" was tabled in the court as an example of best professional practice and partnership between iwi and research organizations.
- My research has also been used by a variety of organizations and applications, including:
 - Invited research participant (interviewee in a qualitative analysis) in a Massey University study called "*Health research & services: localizing the interface between Mātauranga Māori and Science*", led by Prof. Sir Mason Durie, and conducted by Dr Will Edwards.
 - Advice and peer review to a joint Manaaki Whenua (Landcare research) and CSIRO project on optimum governance of Indigenous protected areas and potential governance structures for the return of Te Urewera National Park to Tūhoe, 2011.
 - Advice on community decision whether to authorise translocation of sooty shearwater chicks from Rakiura to Cape Kidnappers (for a private enterprise's conservation project), August 2010.
 - The experiences from *Kia Mau Te Tītī Mo Ake Tōnu Atu* (and then *Te Tiaki Mahinga kai*) have been incorporated into the Society of Ethnobiology's rewriting of their Code of Ethics and creation of an 'Ethics Toolkit' for working more safely and respectfully with Indigenous Communities around the world (2010).
 - Used by classes at the University of Manitoba's Natural Resources Institute by Dr Andrew Miller (2010).
 - Used by classes at School for Environmental Research, Charles Darwin University, Australia by Dr Arturo Izurieta (2010).
 - Used by classes on environmental ethics, spirituality, and conservation of biodiversity in Department of Religious Studies, Center for Science, Technology & Society, Santa Clara University, California US by Dr Keith Warner.
 - Charles' Ahukaramu Royal's review of Mātauranga Māori applications throughout Aotearoa (2009).
 - Application by Te Rūnanga o Ngāi Tahu to the Ministry of Fisheries to establish four Mātaitai on the Tītī islands, July 2009.
- Proposer and co-convenor of a Symposium on "Cultural perspectives on biodiversity research and management", New Zealand Ecological Society Conference *Biodiversity: 2010 and beyond*, Dunedin, 21–25 November 2010: I helped to develop

an experimental workshop format with prior dialogue amongst conference participants via the worldwide web. Participants submitted key 'propositions' about science-mātauranga partnerships which were debated before hand, and then at the conferences workshop sessions.

- Sole judge, *New Zealand Ecological Society Award 2008* for Best Publication by an early career New Zealand-based researcher.
- *Te Tipu Putaiao ('Growth in Science) Fellowship Advisory Board* member (2004-2007)
- Convened and organised *He Minenga Whakatū Hua o Te A*, a hui held it at the Murihiku Marae in August 2000. Around 250 people attended the gathering that was held at Murihiku Marae (Invercargill) for two days in August 2000.
- *Other service to professional groups*
 - Invited referee for tenure application by Dr Brenda Parlee, Faculty of Native Studies, University of Alberta, Canada.
 - Invited referee for Biotechnology & Biosciences Research Council (UK): *Delivering Sustainable Systems* grant application about agricultural sustainability.
 - Invited referee for Marsden Fund, 2011 (Co-management of the DOC estate).
 - Invited referee for Antarctic New Zealand applications for logistical support, 2011/12-2014/15 seasons. Skuas as indicators of Antarctic marine ecosystem health. 2010.
 - Invited referee for National Science Foundation (USA) grant application, September 2009.
 - Invited referee of two competing research bids to Ngā Pae o Te Māramatanga (Māori Centre of Research Excellence), 2008.
 - Advice on kaitiaki training modules for Seafood Industry Training Council, 2008.
 - Advice on FRST funding application for Otago Polytechnic, 2007.
 - Review of Kaitiakitanga course material for Te Whare Wānanga o Aoteroa, 2004.
 - Review of Te Whare Wānanga o Awanuiārangi, Bachelor of Environmental Studies programme, 2004.
 - Chair and summary presenter at workshop organised by Regional Council biosecurity managers and Animal Health Board on issues of mitigation of bovine TB spread by ferrets, Christchurch 1999.
 - Advice and provision of material for the preparation of University Bursary Examinations (1996, 1999).
 - Collaborative projects with the Science Resource Centre of the College of Education involving the production of Teacher Resource kits for primary and secondary schools (1991, 1996).
 - Invited chair for Mammal Society conference on the Re-introduction of extinct mammals to Scotland; Aberdeen, Scotland; 1995.
 - Invited chair and day's summary of sessions for Predator/prey workshop, Haldon Station, organised by the Rabbit & Land Management Project, 1993.
 - I organized the annual Behavioural Ecology Workshop in 1989. This was a 3-day live in informal workshop in Abel Tasman National Park for ca 30 teachers and postgraduate students from all NZ universities.
- Editorship of journals and periodicals
 - Editorial board of *Agriculture* a new 'Open Access' journal published from Switzerland (www.mdpi.com/journal/agriculture/); June 2011 – present.
 - Editorial board of *Animals*, a new 'Open Access' journal published from Switzerland (www.mdpi.com/journal/animals/); June 2010 – present.
 - *Cross-cultural environmental research and management, December 2009*. I convened and co-edited this Forum ("Cross-cultural environmental research and management") that follows a special edition of *New Zealand Journal of Zoology* ("Mātauranga Māori, science and seabirds").
 - *Special edition of Papers & Proceedings of the Royal Society of Tasmania, 2008*. I co-edited and co-ordinated of a memorial collection of seabird papers published in Volume 142 (1) of the Papers & proceedings of the Royal society of Tasmania to celebrate the life and work of Dr Irynej Skira.
 - Guest editor, *Special edition of New Zealand Journal of Zoology, 2000* about New Zealand seabirds.
- Creation and editing of three community periodicals to mobilise citizens science and the empower community direction of the research: *Wasp Times* (1987-1990); *Titi Times* (1994-2009); *Kai Kōrero* (2007-2010).
- Interviews for three broadcasts by Correspondence School on insect natural history, 1990.

Media commentaries and columns on professional matters

Since joining the University of Otago in 1990, I have contributed to over 40 media releases, newspaper articles, Television interviews and radio interviews on issues of current public debate (conservation, sustainable agriculture, muttonbirding, climate change, farm advisory services, customary use of wildlife, and environmental co-management with Māori).

Conferences, seminars, workshops and continuing education lectures

Since joining the University of Otago in 1990, I have been an invited participant, panel discussant or presenter in the following events not mentioned above:

- 18 seminar presentations

- 112 conference presentations
- 29 workshops or hui with Māori communities
- Five discussion panels at plenary conference sessions
- 13 public lectures to societies and clubs
- Six continuing education lectures
- Two seminars for Otago Conservation Corps (12 young trainees), 2002, 2003
- A hui at Otakou marae for a visiting group of 14 Quakers from around the world who were on a tour of environmental management sites of interest
- 18 primary, intermediate and secondary school class or school assembly sessions
- Three International Science Festival contributions
- A nationwide fax/telephone conference with secondary school biology classes on conservation.
- 14 presentations to industry agencies

Henrik Moller

CV Updated 2 November 2016