

Mosquito Consulting Services Pty Ltd

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Curriculum Vitae – Darryl McGinn

NAME: Darryl M^cGinn

POSITION: Company Director Mosquito Consulting Services Pty Ltd
Medical Entomologist
Environmental Health Scientist

YEAR OF BIRTH: 1961

NATIONALITY: Australian

QUALIFICATIONS: Master of Scientific Studies M.Sc.St.(Entomology): The University of Queensland (1996)

Bachelor of Applied Science (with Distinction) Environmental Health: Queensland University of Technology. (1990)

Currently undertaking PhD at School of Public Health, Griffith University.

MEMBERSHIP OF PROFESSIONAL SOCIETIES: Member: Australian Institute of Environmental Health
Member: Mosquito Control Association of Australia
Member: American Mosquito Control Association
Foundation Member: Asia Pacific Mosquito Control Association

PERSONAL APPOINTMENTS: New Zealand Government Ministry of Health: Southern Saltmarsh Mosquito Technical Advisory Group (Past)
Associate Lecturer (Adjunct) Griffith University School of Public Health: Queensland

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Professional History

January 2001 – Present

Mosquito Consulting Services Pty Ltd (ACN 095 739 067)

Founder, Company Director and Principal Consultant of Mosquito Consulting Services Pty Ltd. This business provides consulting services to mosquito management organisations and industry. Its services include:

- Medical Entomology
- Vector Surveillance
- Review and Development of Vector Management Programs
- Land Development Biting Insect Impact Assessment
- Vector Control Operational Capacity Building
- Vector Control Training and Continuing Professional Development
- Institutional Strengthening of Government/Organisational Vector Policy
- Vector Control Advocacy
- Environmental Impact Assessment & Health Impact Assessments

International and domestic projects completed & in progress by Mosquito Consulting Services Pty Ltd include:

Mosquito Impact Assessments (Risk Analysis) associated with statutory approval of land developments. Clients include:

- Petrac Group for Noosa North Shore (Beach Road) & Pacific Pines (Ballina) Residential Developments
- Barlow Gregg and Associates (Hervey Bay)
- Roche Group – Calypso Bay (Gold Coast)
- Byron at Byron Resort (Byron Bay)
- Zamosay Pty Ltd (Ballina)
- Titanium Developments Pty Ltd: (Caloundra, Noosa & Gold Coast)
- Club Pelican Golf Course: Caloundra
- Aspect North Pty Ltd: Ballina
- Geolink Pty Ltd: Ballina & Byron Bay
- Greenwood Grove Pty Ltd Ballina
- King and Campbell Pty Ltd: Ballina
- Greypower Pty Ltd: Hervey Bay urban development
- Becton Corporation: North Beach Byron Bay
- Pelican Waters: Mosquito Breeding Site Investigation
- Danepond Pty Ltd: Ballina Residential Development Application
- Altis Architects Pty Ltd: Port Douglas residential development
- Brazier Motti Pty Ltd: Residential development Cairns.
- Stockland Pty Ltd: Caloundra Downs residential development.
- Leighton Properties: Noosa residential development.
- Pacific Harbour Golf Course and Country Club: Mosquito Management Strategy
- LEDA Developments: Cobaki Lakes Residential Development Mosquito Impact Assessment.

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Government Sector Vector Management Related Projects: Clients and Locations include:

- Regional Assistance Mission Solomon Islands (RAMSI) review of Malaria Control Program – (on behalf of JTAI)
- New Zealand Air Force Deployment Vector Management Skills Review
- Rockhampton City Council Vector Control Staff Skills Audit
- Rockhampton City Council Mosquito Identification Course
- Maroochy Shire Council
- Rockhampton City Council Mosquito Control Plan
- Caboolture Shire Council Mosquito Control Program Review
- Rockhampton City Council (Capricorn Mosquito Management Committee) Review
- Logan City Council Environment Management System Training Program
- Redland Shire Council: Review of Mosquito Control Program
- Ballina Shire Council Rezoning and Development Application Mosquito Risk Assessment
- Redcliffe City Council: Mosquito Management Services Contract
- Auckland District Health Board: Review of *Aedes camptorhynchus* delimiting survey in Kaipara Harbour
- Healthcare Hawkes Bay: Napier New Zealand: Review aerial mapping and identification of potential habitat for the exotic mosquito *Aedes camptorhynchus* within Kaipara Harbour
- Logan City Council: Vector Control Training
- Sarina Shire Council: Mosquito control feasibility study
- Hervey Bay City Council: Biting Midge Control Strategy – River Heads

Other Projects:

- Australian Defence Force: Army Malaria Institute: Mosquito control research as part of PhD program.
- Gold Coast Airport Limited (Coolangatta) Development of Mosquito Management Action Plan.
- FMC (Chemicals) Pty Ltd: Field Efficacy Testing of New Adulticide Agents
- New Zealand Biosecure Ltd. Consultant Entomologist: National Exotic Mosquito Response Centre

(Pre- February 2001 Projects Managed through Brisbane City Council)

East Timor: Technical Assistance to Timor-based Non-Government Organisation Water Projects (Nov-Dec 2000)

Development of relationships with the East Timor based Non-Government Organisation, Bia Hula through a Brisbane City Council Social Justice Program. Provision of technical support for capacity building on specific water supply projects aimed at minimising mosquito-borne disease. The project commenced in November/December 2000 with further work scheduled for early 2001.

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Peoples Republic of China: Huang Jiang City Government: Mosquito Management Program (July 1999)

Supply of consultancy service through Brisbane City Council to Huang Jiang City Government urban improvement for management of malaria, and arbovirus disease. Initial service including mosquito management capacity building needs assessment. Preliminary program development report and proposal for further detailed assessment delivered in August 1999.

New Zealand: Ministry of Health: Exotic Mosquito Control Project: Napier (Jan 99 – Jan 2000)

Supply for technical/operational consultancy services to the New Zealand Ministry of Health (via Brisbane City Council) supporting control of *Aedes (Ochlerotatus) camptorhynchus* incursions in Napier. Project involvement was from January 1999 to February 2000. Approx 50 consulting days have been provided to June 00. Management (direct and remote) of BCC technical staff deployed from Brisbane for 6-month assignment in Napier.

Sydney: 2000 Olympic Games Site: Mosquito Control Program (Jan 98 – Feb 2001)

Project management of Brisbane City Council supply of aerial and ground based mosquito control services to the Olympic Coordination Authority for Sydney Olympic Games venues. Supply of operational capacity had been provided from January 1998 to Feb 2001.

“Mozzie Net”: Community Consultation and Network Process (Brisbane CC) (1996-2001)

Concept and development leader for local community-based mosquito management consultation with linkages into established formal and informal community networks. Trial process commenced in 1997. Sustainable consultation networks now established in two local Brisbane communities.

Sustainable Development: Mosquito Management Practices

Championing sustainable management including environment protection, economic responsibility, and scientific/technical excellence. Supporting improvements across government/research and social sectors and direct research into community expectations and behaviours, environmental impacts and applied improvements in practices.

Brisbane: Mosquito Management Information System Project:

Project management of geographical information system approach to record management information including locations of mosquito breeding sites, locations of mosquito borne-disease, vector control program data. Delivered first phase including Differential Global Positioning System tracking of aircraft spraying operations.

Industry Development:

Development of networks between private sector, research institutions and government. Providing a leadership role in the direction of research into mosquito-borne disease control through industry representative groups including North East Moreton Mosquito Organisation, Mosquito and Arbovirus Research Committee Inc., Queensland Arbovirus Advisory Committee and the Mosquito Control Association Australia. Strong relationships with research and development groups within private sector for improved products for mosquito management.

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Other Relevant History

1997 - 2001

Manager - Mosquito and Pest Services, Brisbane City Council.

Technical product and commercial manager of the BCC owned business unit with responsibility for delivery of mosquito and vector management services to Council and external organisations.

Sustainable and continuous improvement of vector management programs including community consultation processes, policy development, contract management, technical, scientific and operational processes and content.

Mosquito and Pest Services provided sustainable and integrated mosquito management processes and services to control mosquitoes and other vectors in urban communities. The annual capacity for services in Brisbane included 30,000-40,000 hectares (pa.) of aerial application of mosquito larvae control agents to environmentally sensitive mosquito breeding sites, ground based management of wetland sites within the 1,225 km² Brisbane City area, community education for risk management of domestic breeding species. The program budget 1999/2000 was A\$ 4,125,000 and 2000/2001 was A\$4,285,000.

Concurrently from 1993 - 2000

Part-time Lecturer - Queensland University of Technology & Griffith University

Development and delivery of theoretical, practical and field training in vector-borne disease management, vector identification and pest management to undergraduate students undertaking Bachelor of Applied Science - Environmental Health and post-graduate students undertaking Master of Public Health.

Supervision of Post-Graduate Student

1997-98 Kavanamur, R. Master of Public Health. Queensland University of Technology. The Effectiveness of a Comprehensive Vector Control Program: A Case Study of the National Capital District Commission (NCDC) Vector Control Unit in Port Moresby - Papua New Guinea.

Reviewer/Marker Post-Graduate Dissertations

2000 Brereton, C. Bachelor of Health Science (Honours). Queensland University of Technology. Efficacy of over-the-counter mosquito killers against *Aedes aegypti*.

2004 Aji, B. Master of Public Health. Griffith University. The study of socio-economic status and knowledge, attitude and practices in mosquito breeding site eradication program.

Hendriyanto, T. Master of Public Health. Griffith University. A study of housewives' participation in DHF prevention and control in Depok City, Indonesia.

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1995 to 1997

Operations Manager- Mosquito and Pest Services, Brisbane City Council.

Responsibility and accountability for the delivery of all day to day products and services, human resource management of 41 staff. Business process redesign of operations for improved efficiency and customer service.

1992 to 1995

Medical Entomologist - Vector Services, Brisbane City Council.

Responsibility for technical evaluation and design of mosquito management processes, assessment of vector populations, development of information management tools for disease management. Development of technical solutions for improved vector control processes including introduction of new control agents, biological control with native fish species, survey and recording of mosquito breeding sites, development of improved pesticide application processes.

1990 to 1992

Environmental Health Officer – Brisbane City Council

Public health policy and delivery of Community Health program activities at local government provider level.

Current and Recent Representation on Mosquito Advisory Groups

- New Zealand Government, Ministry of Health, Southern Saltmarsh Mosquito Technical Advisory Group (Past) International member of the NZ Government, Ministry of Health, Technical Advisory Group to provide advice on national control of SSM and other exotic mosquitoes in New Zealand.
- Local Government representative (past) on the Queensland Government Arbovirus Advisory Committee linking government departments with research institutions and awarding \$ 100,000 pa contestable research funding towards projects to improve outcomes in mosquito-borne disease management.
- North East Moreton Mosquito Organisation: (Recent)
Past Secretary/Coordinator of this regional grouping of councils and responsible for strategic planning, contract management and delivery of program services. The group comprises four Local Governments with a combined population of 1.2 million people.
- Mosquito and Arbovirus Research Committee Inc. (Recent)
Immediate past secretary of MARC (LARC). MARC is responsible for applied scientific research of fundamental mosquito management. This includes improvements in chemical control, habitat modification, and environment protection and disease epidemiology.
- Contributor: Australian Mosquito Control Manual (Recent)
Contributor to the Mosquito Control Association of Australia Inc. syndicate of experts to supply technical content for the Australian Mosquito Control Manual published 1998.

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Publications

McGinn, D., Muller, M. (1997) Saltmarsh Mosquito control – towards best practice. *Arbovirus Research in Australia*. 7:194-197.

McGinn, D. R., Standfast, H.A. 2002. *Culex (Culex) gelidus* Theobald 1901. New Record of Occurrence in Rockhampton, Queensland, Australia. Mosquito Control Association of Australia, July 2002, 14 (20): 9-14.

McGinn, D.R., Francis, S., Brown, M.D. 2004. Bistar 80SC (Bifenthrin 8% SC): An effective residual mosquito control treatment for military tents in the Australian Defense Force. *In Arbovirus Research in Australia, Proceedings Ninth Symposium*. Editors: Dr Peter Ryan & Dr Brian Kay. Brisbane: Australia.

McGinn, D.R., Asnicar, M., Perel C., Brown, M.D., 2004. Control of Biting Midge (Ceratopogonidae) attack on residents of a marine canal estate in Redcliffe (Australia) by residual barrier treatment of Bistar 80SC[®] to ornamental garden plants in house yards. *Proceedings of the 22nd International Congress of Entomology*. Brisbane. Australia.

McGinn, D.R., Woods, T., Asincar, M. 2002. Light Trap Dry Ice From Cylinder Supplied Liquid Carbon Dioxide, A Practical and Cost Effective Example From Redcliffe City Council Mosquito Control Program. Mosquito Control Association of Australia, March 2002, 14 (1): 10-16.

McGinn, D., Garner, S., Muller, M. 2000. Control of Exotic Mosquitoes – Recent Experiences in Australia and New Zealand. *Proceedings of the Joint Australian Institute of Environmental Health and Singapore Society of Environmental Health Workshop*. Singapore October 2000.

McGinn, D.R. 1999. Sustainable Development: Mosquito Management Process and Opportunities. *Proceedings of the First International Congress on Integrating Sustainable Development into Environmental Health Practice*. Brisbane, 22-24 November 1999.

McGinn, D.R., Muller, M.J., Brown, M. 1998. Formulation and Operational Effectiveness of Methoprene in Australia. *Proceedings of the 64th Annual meeting*. The American Mosquito Control Association. 50-51.

McGinn, D.R. 1998. Integrated Management of Mosquito Vectors. *Proceedings of the Third National Conference*. Mosquito Control Association of Australia. 48-49.

McGinn, D.R. 1997. Environmental Control of Mosquito Vectors. *Environmental Health Review-Australia*. 26 (2): 45-49.

Bishop, S., **McGinn, D.R.** 1998. Mossie Nets - Community Consultation Groups Within Vector Management Programs. *Proceedings of the 25th National Conference*. Australian Institute of Environmental Health. 553-558.

Brown, M., Kay, B., **McGinn, D.**, Garner, S. 1999. Evaluation of s-Methoprene based Formulations for Control of Mosquitoes in Australia and New Zealand. For the 2000 Annual meeting. The American Mosquito Control Association.

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Ritchie, S.A., Fanning, I.D., Phillips, D.A., Standfast, H.A., **McGinn, D.R.**, Kay, B.H. 1997. Ross River Virus in Mosquitoes (Diptera: Culicidae) During the 1994 Epidemic Around Brisbane, Australia. *J. Med. Entomol.* 34 (2): 156-159.

Brown, M., Thomas, D., Mason. P., Muller, M., **McGinn, D.**, Kay, B., Evaluation of S-Methoprene based formulations for control of *Aedes* spp. in Australia and New Zealand. *Arbovirus Res. Aust.* 8: 48-55.

Larson, A., Bryan, J., Howard, P., **McGinn, D.**, Queenslanders and Ross River Virus Disease: Community perspectives of the transmission and prevention of the mosquito borne disease. *Australian and New Zealand Journal of Public Health* 24 (4).