

Brief CURRICULUM VITAE of DR JOHN T.B. MILTON

Address: PO Box 244
Serpentine, WA 6125

Nationality: Australian

Date of Birth: 24 February 1952

Academic qualifications: BAgrSci (Hons), University of Queensland, 1974
Doctor of Philosophy (PhD), University of Queensland, 1984
Specialist field - Ruminant Nutrition

Distinguished Awards: July 1996 made an Officer of The Most Noble Order of the Crown of Thailand by His Majesty, The King of Thailand
August 2010 one of the hundred people named in Edition 1 of The Australian Sheep and Lamb Industry Roll of Honour

Affiliations: Australian Society of Animal Production
Foundation Member Nutrition Society of Australia
Australian Association of Agricultural Consultants, WA Inc
Foundation Member Australian Fodder Industry Association

Languages: English - Native language, Thai - conversational

EMPLOYMENT:

Present, since 1993 Director of own company, Independent Lab Services
Part-time Associate Professor, Faculty of Natural and Agricultural Sciences (FNAS), School of Animal Biology, The University of Western Australia (UWA)

Independent Lab Services (ILS) is my own livestock feed analysis and consultancy company that I have operated since 1992. At ILS feeds are analysed for nutritional attributes and diets formulated for stud stock, beef and dairy cattle, prime lambs and goats. ILS consultancy clients on the nutrition of sheep and goats, beef and dairy cattle and sheep reproduction have included: Ag Excellence Alliance (SA), Birchip Cropping Group (Vic), Department of Agriculture & Food of WA, EverGraze Project, Farm Management 500, Keenan P/L, Kondinin Group, Landcorp in NZ, Meat & Livestock Australia, Resource Consulting Services, stud and commercial Merino and prime lamb producers throughout Australia, produce agents, feed millers and live export companies. Through ILS I developed a special pelleted feedlot diet to finish prime lambs for the Q Lamb Alliance that involved 230 prime lamb enterprises in WA. The WA Prime Merino Lamb Alliance retained my services to formulate special diets for producer members to feedlot Merino lambs to ensure the meat from these lambs met the eating quality attributes desired for special export markets.

As a part-time Associate Professor at UWA I help to develop and expand animal science research and teaching in the School of Animal Biology within the Faculty of Natural and Agricultural Sciences and, through my interaction with producers, maintain the profile of the Faculty and UWA throughout the farming community of WA. Have represented the Faculty and UWA on overseas missions to recruit postgraduate students in agriculture.

July 1997 to June 2002

Fractional appointment at UWA with funding from the WA Department of Agriculture to conduct programs of R&D to increase the year-round supply of quality prime lambs in WA. In this role I obtained industry funds to conduct research and extend the research outcomes. This R&D encompassed new breeds of meat sheep, improving the feeding, breeding and management systems for prime lamb production and developing an equitable trading base for prime lambs. I had a major role in technology transfer in the WA sheep meat industry through field days, farm notes, radio and press media and in the development of specific farmer skills. In August 2002 the Department of Agriculture held a scientific symposium entitled "Lambs for Dollars" to recognise my contribution to the WA prime lamb industry.

January 1991 to June 1997 Senior Research Fellow, Faculty of Agriculture, Animal
Science Group, The University of Western Australia (UWA)

Chief Investigator for Meat Research Corporation (MRC) funded Project "Prime lambs from fine woolled sheep in WA" up to October 1993 and then Project Supervisor and Chief Investigator for MRC funded Project "Off-season production of large lean lamb in WA". The first project involved on-farm refinement of a range of reproductive management strategies to increase production of prime lambs from Merino ewes in WA. The second project encompassed Central Progeny Testing of prime lamb sires as part of a national program to identify sires capable of producing quality prime lambs. A major part of this second project involved developing cheaper feeding systems to encourage out-of-season production to provide large and lean prime lambs for slaughter year-round in WA. This project had important ramifications for the viability of all sectors of the WA prime lamb industry and particular facets of the project are addressed in my current research and consultancy activities.

January 1985 to Jan 1991 Senior Research Fellow, Faculty of Agriculture,
University of Queensland

Initially Resident Adviser and then In-country Project Director for the Thai-Australian Prince of Songkla University (PSU) Project, Hatyai, Thailand administered by the University of Queensland (UQ). This \$10 Million Australian foreign aid project was within the Faculty of Natural Resources (FNR) at PSU. The project enhanced the capacity of FNR to meet the needs for agricultural education, research and extension for the 10 million people engaged in agriculture in southern Thailand. This ten-year program of institutional development was achieved through higher degree training of 28 FNR staff in Australia and collaborative research with Australian scientists in Thailand.

As animal science adviser, I implemented an integrated program of R&D to improve meat goat production in southern Thailand through the introduction of new genotypes and developing transferable technology for rural development, especially for Muslim small holders. Established facilities on the FNR campus farm for goat research, directed all programs of research, trained staff in goat husbandry and management practices and transferred to "key villagers" improved production methods.

Two FNR staff who undertook postgraduate training on aspects of goat production conducted components of their PhD studies in Thailand under my supervision. One of these former students became the Dean of FNR and is now the Vice Chancellor of Thaksin University and the other is now Professor and Dean of Agriculture at another Thai University. The Australian government funded the project to host an international workshop on Goat Production in the Asian Humid Tropics in May 1991 to highlight the achievements of the PSU Goat Program.

Nutrition and feed management consultant to a multi-national consortium to implement a 3,000 cow intensive dairy project in the north-east of Thailand.

Providing technical advice to Thai companies on the feasibility of establishing beef cattle production and feedlot units, intensive cow and goat dairies and meat goat enterprises.

At the request of the Australian Embassy, advised short-term consultants preparing feasibility and inception programs for livestock development projects throughout Thailand.

Invited by Coffey MPW to join a mission to Burma as the small ruminant production systems specialist for the United Nations International Fund for Agricultural Development.

Consultant to the Thai-Australian PSU Project in 1991 and 1992 to advise on goat management, pasture development and finalising the development of a pasture based goat research facility.

Short-term consultant for the Queensland Department of Primary Industries to select 700 beef cow recipients and devise feeding programs to prepare the cows for an Australian team to conduct an embryo transplant program for the Royal Thai Government.

OTHER ACTIVITIES AT UWA:

Other Research Grants: Co-investigator in a \$350,000 grant awarded in 2007 by the Rural Industries Research & Development Corporation (RIRDC) to develop feeding strategies to improve reproductive performance and production of quality fibre from Alpacas. Co-investigator for a \$400,000 RIRDC grant for a national Cashmere goat sire evaluation program at UWA. From 1991 to 1995, co-ordinator of the Co-operative Program of Goat Research in WA involving UWA, the WA Cashmere and Mohair producers and the WA Department of Agriculture. RIRDC provided \$350,000 for this Co-operative program of Goat Research in response to the funding request I helped to develop.

Postgraduate Supervision: Supervisor of 3 overseas students conducting research on goats, 1 overseas student studying strategies to enhance the survival of lambs from fine woolled sheep, 1 Australian student studying the preference of sheep for legumes to help control crop weeds, 1 Australian student studying maternal breeds of sheep for prime lamb production, 1 Australian student investigating the value of saltbush as a feed for sheep and 1 Australian student studying the behavior of female goats with different methods of artificial insemination. Currently co-supervisor of 3 PhD students, 2 conducting research on Alpacas and 1 investigating why farmers don't adopt raising goats as a commercial enterprise.

Undergraduate teaching and supervision: Lectures on feed supply and demand, prime lamb production systems and practicals for Year 1 students in Ecosystems Processes. Lectures in the Year 4 subject Rain-fed pasture systems, lectures and practical classes for Year 3 students on aspects of nutritional biochemistry of domestic animals and ruminant grazing systems. Supervised the research projects of 33 Year 4 honours students in the past 16 years.

ACTIVITIES AT OTHER UNIVERSITIES IN WA:

Murdoch University: Lectures to Years 3 and 5 Veterinary Science undergraduates on applied dairy cattle nutrition, pasture and fodder conservation and prime lamb production systems.

Muresk Institute of Agriculture: Lectures on the principles and practices of supplementary feeding livestock to undergraduates and supervised a Year 4 honours student research project.

AWARDS FROM THE WA DEPARTMENT OF AGRICULTURE:

1997: Inaugural Meat Program Innovation Award - Highly Commended for the Innovation "Feeding protected sulphur amino acids to prime lambs" with S. Davies, D. Masters, C. White and R. Davidson. Project funded for \$45,000 plus \$2,500 travel.

1998: Meat Program Innovation Award - Overall Winner for the Innovation "Is GR tissue depth an appropriate measure to determine saleable meat yield?" with S. Davies, R. Davidson and P. Trefort. Project funded for \$49,000 plus \$10,000 travel.

1999: Meat Program Innovation Award - Internally initiated innovation and overall winner for the Innovation "Production of health enhanced and flavour modified meat from Merino hoggets" with S. Davies, R. Davidson and P. Trefort. Project funded for \$122,000 plus \$10,000 travel.

ADMINISTRATIVE EXPERIENCE:

Prepared Milestone documents for MRC to report on project progress and preparation of the final reports at the expiration of two projects. Preparation of discussion documents and negotiations with MRC to formalise the successful extension of a former MRC project (total funds \$435,000). Preparation of preliminary and full funding requests to MRC and negotiating with MRC to successfully secure a further \$616,437 for a new project in 1993.

As in-country Director in Thailand for the AUD \$10M ADAB funded Thai-Australian PSU Project from June 1987 to January 1991, I performed the following administrative duties: Co-ordinated all requests for the release of funds from the University of Queensland for project activities and supervised all aspects of financial management for the project in Thailand. Attended meetings at the request of the Australian Embassy and liaised with Embassy staff on all matters relating to project management and procurement. Prepared mid-term project review documents and quarterly and half-yearly reports. Helped to prepare successful submissions to the Australian government for A\$M3.3 complementary and supplementary funds to extend the PSU Project.

COMMUNICATION:

- In the past 10 years given over 100 talks to sheep, cattle and goat producers in Australia
- Written over 85 articles and papers for seminar proceedings and agricultural newspapers.

PUBLICATIONS:

Author or co-author of:

- 95 Scientific papers in International and National journals and Conference proceedings
- 4 Chapters in Western Australian Department of Agriculture Bulletin 4473 "The Good Food Guide for Sheep"
- 3 Final reports to funding bodies.