

Publications

Refereed Journal Papers

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Karlen GA (2005) The welfare of gestating sows in conventional stalls and in large groups on deep litter systems. MSc Thesis, University of Melbourne.

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Conferences

During 2004/05 PIRVic staff made presentations at the following conferences:

International

Australasian Association of Pig Veterinarians Conference, Brisbane, May 2005

BairesBiotec2005, REDBIO/FAO International Congress, Buenos Aires, Argentina, June 2005

European International Association for Landscape Ecology Congress, Portugal, March 2005

Eurosoil 2004, Freiburg, Germany, September 2004

Genetics Society of Australasia Conference, Auckland, New Zealand, June 2005

International Contaminated Site Remediation Conference, Adelaide, September 2004

International Poisonous Plants Conference, Logan, Utah, USA, June 2005

International Salinity Conference, Riverside, California, USA, April 2005

1st International Digital Soil Mapping Workshop, Montpellier, France, September 2004

3rd International Conference on Water Resources Management, Algarve, Portugal, April 2005

3rd Australia/New Zealand Soils Conference, University of Sydney, Australia, December 2004

4th International Crop Science Congress, Brisbane, Australia, September 2004

4th International Phosphorus Transfer Workshop, University of Wageningen, Netherlands, August 2004

6th Oceania Foods Conference, Wellington, NZ, April 2005

7th European Symposium on Poultry Welfare, Lublin, Poland, June 2005

8th International Conference on Goats, Pretoria, South Africa, July 2004

8th Conference of the International Society for Plant Anaerobiosis, Perth, September 2004

12th International Conference on Near Infra-red Spectroscopy, Auckland, NZ, April 2005

XX International Grasslands Congress, Dublin, Ireland, June 2005

XXII International Conference on Polyphenols, Helsinki, Finland, August 2004

XXII International Congress of Entomology, Brisbane, Australia, August 2004

29th International Symposium on High Performance Liquid Phase Separations and related Techniques, Stockholm, Sweden, June 2005

29th HPLC Conference, Stockholm, Sweden, June 2005

34th Annual Conference of New Zealand Agronomy Society, Ashburton, New Zealand, October 2004

38th International Congress of the International Society for Applied Ethology, Helsinki, Finland, August 2004

SOCHIPA Forage & Animal Biotechnology Conference, Villarrica, Chile, October 2004

Workshop on adaption and management of forage legumes – Strategies for improved reliability in mixed swards. Ystad, Sweden, September 2004

World Allergy Conference, Munich, Germany, June 2005

National and State

Agroecology Conference, Mildura, September 2004

Australian Sheep Veterinarians - Australian Veterinary Association Conference, Gold Coast, May 2005

Australian Society of Animal Production, 25th Biennial Conference, Melbourne, July 2004

Australian Veterinary Poultry Association, North Melbourne, October 2004

Clay Mineralogy and Geophysics for Environmental Management and Mineral Exploration, Adelaide, September 2004

Dairy Science World Series Conference, Melbourne, August 2004

Dryland Lucerne - The Farm Challenge Symposium, Horsham, Australia, March 2005

Ecological Society of Australia Annual Conference, Adelaide, December 2004

4th Australian Stream Management Conference, Launceston, Tasmania, October 2004

14th Australian Weeds Conference, Charles Sturt University, Wagga Wagga, September 2004

46th Annual Conference of the Grassland Society of Southern Australia, Ballarat, Australia, June 2005

Irrigation Association of Australia (IAA) Annual Conference, Townsville, May 2005

Meat & Livestock Australia (MLA) Postgraduate Student Workshop, Sydney, May 2005

National Workshop on the Welfare of Sheep as Experimental Animals, Monash University, Clayton, April 2005

9th ISHS Symposium on the Processing Tomato, Melbourne, November 2004

Royal Australian Chemical Institute (RACI) Conference, Melbourne, December 2004

Salinity Solutions: Working with Science and Society, Conference, Bendigo, August 2004

Symposium: Perennial ryegrass toxicosis in Australia, Hamilton, March 2005

12th Australian Wine Industry Technical Conference, Melbourne, Australia, July 2004

17th Annual Australian Poultry Science Symposium, University of Sydney, February 2005

25th Conference of the Australian Society of Animal Production, Parkville, Victoria, July 2004

54th Cereal Chemistry Conference and 11th Wheat Breeders Assembly, Canberra, September 2004

University of Melbourne Institute of Land & Food Resources Postgraduate Conference, Parkville, Australia, November 2004

International Visitors

Throughout the year PIRVic hosted numerous visiting scientists who assisted on projects and exchanged knowledge in interactions with PIRVic scientists.

Examples are provided in the table.

Name	Home Organisation & Country	Purpose of Visit
Mark Hardy, John Tolmay, S Laubscher and Willi Langenhoven	Western Cape Department of Agriculture, South Africa	Inspected and discussed long-term agronomic trials and sustainability issues.
Glenn Fitzgerald	USDA, ARS Water Conservation Laboratory, USA	Visiting Research Fellow – assisted with ORL project on precision management of nitrogen in grain cropping systems.
Prof Roger Sylvester-Bradley	ADAS, Centre for Sustainable Crop Management, UK	Visiting Fellow – assisted with identification of crop ideotypes for the high rainfall zone of southern Australia.
Jim Krall, Jerry Nachtman and Jack Cecil	University of Wyoming, USA	Low rainfall farming systems studies.
Sang Bu and Phurbu Drolma	TAAS, Tibet	Training in experimental methodology.
Prof Jan Hopmans Dr Jasper Vrugt	University of California, USA University of Amsterdam, The Netherlands	Provided assistance with laboratory methodology and inverse modelling for precision agricultural and horticultural practices.
Mr CM de Leon and A Bandiera	Wrightson PAS, Uruguay	Observation of advanced experimental pasture grass varieties and discussion of seed production issues.
Dr James Schepers Prof Dick Godwin and Gavin Wood	USDA, University of Nebraska Cranfield University, UK	Collaboration on precision horticultural work.
Prof Maurizio Paoletti	Visiting Fellow at La Trobe University	Provided input to projects developing horticultural buffers and minimising off-target impacts of agrochemicals.
Dr A Kleinhout Mr C Igaer Dr Toshihiko Yamada	DLF-Trifolium, Denmark DLF Seeds, New Zealand National Agriculture and Bio-oriented Research Organisation, Japan	Visits to pasture grass breeding trials.
Dr Richard Ozminkowski Dr Adel el Sheik	Heinz USA Unilever USA	Discussed overseas developments in tomato breeding and visited field trials in northern Victoria.
Prof Veronique Bellon	Cemagraf, France	Held discussions on quality measurement, remote sensing and modelling product quality.
Dr David Hume	AgResearch, New Zealand	Discussed NZ progress on grass insect resistance and the tonic effects of novel endophytes observed at Australian research sites.
Dr Jim Kaput	Nutrigenomics Inc, University of California, USA	Discussion of nutrigenomics and the future of nutrition science research.
Dr Bruce German	Nestle, University of California, USA	Discussions on the role of diet in health; specifically bioactives in milk.

Name	Home Organisation & Country	Purpose of Visit
Dr Mark Rutter	Institute of Grassland and Environmental Research, UK	Presented seminar on foraging behaviour.
Mr Jurgen Reimers	Lohmann Tierzucht GMB, Germany	Bantamised layer work and commercial advice.
Ms Emilie Bernard	Enita University, France	Gaining experience in Australian agriculture and research.
Dr Hen-Wei Cheng	USDA, Purdue University, USA	Discussions on poultry welfare and bantamised layer project.
Prof David Beever	Reading University, UK and Richard Keenan & Co, Ireland	Discussion of feeding systems and feed conversion efficiency.
Mr Liam Downey	Richard Keenan & Co, Ireland	Discussions on milk composition and processing efficiency; Australian Dairy Conference.
Asst Prof Lance Baumgard	Arizona State University, USA	Presented seminars and discussed possible projects on manipulation of milk composition and heat stress in cattle.
Dr Adam Lock	Cornell University, USA	Discussion on bioactive compounds in milk and manipulation of milk composition. Guest speaker at International Dairy Summit, Adelaide.
Dr Susumu Hyodo	Oceanic Recovery Institute	Collected tissue samples for studies of osmoregulation.
Prof William Hamlett	Indiana University School of Medicine, USA	Participated in collaborative project and lectured on reproduction of sharks, rays and chimaeras.
Dr André E Punt	University of Washington, USA	Discussion of issues relating to fisheries modelling of shark and southern rock lobster.
Dr Alexander Arckinpin and Dr Paul Brickle	Faulkland Islands Department of Fisheries	Discussion of techniques in fish ageing and feasibility of future collaborative projects.
Dr Marek Lapinski	Sea Fisheries Research Institute, South Africa	Gaining knowledge on the application of production fish ageing.
Prof Fred Provenza	University of Utah, USA	Plant-herbivore interactions.
Dr John Lory	University of Missouri, USA	Nutrient management in animal production systems.
Prof Earl Bossard	University of San Jose, USA	Strategic planning.
Prof Paul Longey	University College of London	Strategic planning and visualisation.
Mr Joe T Ritchie	retired scientist, USA	Crop modelling.
Dr Selwyn Manning	Heritage Seeds, New Zealand	Designer grass-endophyte associations.
Dr Stefan Van Der Heijden	Barenbrug Group, The Netherlands	
Pedro Bonino, Alberto Fossati, Eduardo Urioste, Fabio Montossi, Jaime Garcia, John Grierson	INIA Board Members, Uruguay	Execution of MoU between INIA Uruguay and DPI.

Name	Home Organisation & Country	Purpose of Visit
Prof Takuji Sasaki	National Institute of Agrobiological Sciences, Japan	Systems Biology Workshop 2005, DPI Bundoora
Prof David Galbraith	University of Arizona, USA	
Prof Ray Rodriguez	University of California-Davis, USA	
Prof Frits Koning	Leiden University, The Netherlands	
Prof Lynn Ferguson	University of Auckland, New Zealand	
Prof Douglas Cook	University of California-Davis, USA	
Dr Christian Haudenschild	Solexa Inc, USA	
Prof Joshua LaBaer	Harvard Medical School, USA	
Prof Yuri Gleba	Icon Genetics, Germany	
Prof Jill Banfield	University of California-Berkeley, USA	
Dr Mya Breitbart	San Diego State University, USA	
Dr Elia Stupka	Telethon Institute of Genetics and Medicine, Italy	
Dr Ben Goertzel	Biomind LLC, USA	
Dr Emile Nuwaysir	NimbleGen Systems Inc, USA	
Dr Per E. Andren	Uppsala University, Sweden	
Prof Nick Hill	University of Georgia, USA	National Perennial Ryegrass Symposium
Prof Toshihiko Yamada	Laboratory of Grass Breeding, National Agricultural Research Centre for Hokkaido Region Sapporo Japan	Research seminar
Prof John MacRae	Rowlett Research Institute, UK	Australian Society of Animal Production Conference
Prof Matthew C Lucy	University of Missouri, USA	

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