



Research Seminar

Improving the value of onions
followed by AGM & dinner



18th October 2017

1.30pm - 5:00pm

Indian Association Hall, Ward St, Pukekohe

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Seminar Chair: Grant Ryan

Chair, ONZ Research and Innovation Committee

SCHEDULE	PRESENTER	TITLE
1.45pm - 2.25pm	Jim Walker and Lisa Jamieson Plant and Food Research Presented by Lisa Jamieson	The 'Apple Futures' story: pest free and residue-free produce for global markets
2.20pm - 3.00pm	Travis Glare Lincoln Bioprotection Centre	The future of bioprotection
3.00pm - 3.20pm	Sponsor presentations	
	Anthony Julian, Monsanto Ltd	
	Andrew Culley, Seed and Field Ltd	
3.20pm - 3.50pm	Afternoon tea	
3.50pm - 4.25pm	Greg Sneath Fertiliser Association of New Zealand	Management of soil cadmium in production soils
4.25pm - 5.00pm	Bruce Searle Plant and Food Research	Establishing vigorous onion crops



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The 'Apple Futures' story:

Pest free and residue-free produce for global markets

Dr Jim Walker is a Principal Scientist (entomology) with Plant and Food Research and leads their Bioprotection research programme for pipfruit. The team he leads has focussed on many aspects of pest management over the last 30+ years to reduce pesticide use and enable access into new, high-value export markets. This research has contributed to >90% reduction in insecticide use (kg/ha) by apple growers since the mid-1990s. His team's development and implementation of new and innovative pest control tactics is central to the sustainability, food safety and biosecurity challenges facing the apple industry.

Dr Lisa Jamieson is an applied entomologist at Plant and Food Research where she has been working on both pre-harvest and post-harvest pest management strategies since the mid-1990s on a range of fruit and vegetable crops.

Lisa specializes in the development of postharvest disinfestation solutions to assist with biosecurity and market access issues for horticultural imports and exports, using technologies such as heat, cold, controlled atmospheres, fumigation with GRAS compounds and toxic compounds, and pest removal systems. She has also been involved in developing on-orchard pest management strategies, including biological control, cultural control and semiochemical control techniques, and the integration of these with sustainable insecticide use. This experience in research across the entire production and supply pathway for horticultural products has led to the development of systems approach tools to manage risks on import and export pathways and to aid pest risk assessment and management.



Lisa Jamieson (nee Hoy)

The future of bioprotection

Professor Travis Glare is Director of the Bio-Protection Research Centre and Professor of Applied Entomology at Lincoln University. Previously, he worked for over 20 years as a researcher in MAF Technology and as both a researcher and manager for AgResearch, a Crown-owned Research Institute. Professor Glare's research background is in insect pathology, molecular biology and ecology. He trained at the Australian National University, CSIRO Division of Entomology and with the USDA insect pathogens laboratory at Cornell University, New York State. In AgResearch, Professor Glare held positions from research scientist to General Manager of Science Strategy. He has worked on many national and international research and consulting programmes, and served on national pest incursion taskforces. He has been a board member of Pastoral Genomics, a joint venture which manages research into forage improvement through biotechnology Biotelliga Ltd, a biopesticide company in New Zealand, reflecting his focus on translating fundamental research into practical management of pests and disease of plants.

Management of soil cadmium in production soils

Greg Sneath has been with the Fertiliser Association of New Zealand for 12 years. Greg was previously engaged technical support in the commercial nursery trade, and before that, engaged in Extension / Advisory services with New South Wales Department of Agriculture.

The Fertiliser Association conducts a range of work programmes relating to nutrient management, addressing matters of common industry good. These include policy submissions at regional council and national government levels, development of information resources, and the funding of research. The Association has been closely involved in development of tools, and strategies to address the issues relating to soil cadmium accumulation in production land. The Association has been instrumental in negotiating with Regional Council, Ministry for Primary Industry and Ministry for the Environment in relation to non-regulatory and regulatory responses introduced to manage soil cadmium. The Cadmium Working Group, comprising members of the primary sector organisations, regional councils and central government, was established in 2006. In 2011 this group presented its report and recommendations for the Cadmium Management Strategy. The Cadmium Working Group was disbanded and the Cadmium Management Group formed to implement the current Strategy. Through the Fertiliser Association of New Zealand, Greg has been closely involved in all stages of this process.

Establishing vigorous onion crops

Dr Bruce Searle is Senior Scientist, Sustainable Production, Plant & Food Research, based in Hawke's Bay. Bruce's work focuses on developing profitable production outcomes for vegetable and crop production systems. Recent work has involved understanding crop nutrient management in response to spatial and temporal variability of nutrients, and looking at ways to quantify factors that lead to variability in yield and quality of crops, including plant characteristics, crop growing conditions and crop management."



Ken Taylor's Profile

Ken Taylor is the Director of the Our Land and Water National Science Challenge, one of the country's eleven science Challenges set up to deal with complex national issues that require research for their resolution.

The Challenge mission is to enhance primary sector production and productivity while maintaining and improving our land and water quality for future generations. The Challenge has a strong emphasis on working collaboratively with stakeholders and users of science to ensure that its research findings are relevant, accessible and applicable.



Prior to taking up the role with the Challenge in April 2016, Ken was Director of Science at Environment Canterbury, where he oversaw the group responsible for meeting the information needs of the organisation and its community with respect to the quantity and quality of natural resources in the region.

In recent years this work involved a growing emphasis on redefining both the design and delivery of science to respond more effectively to the ways communities of interest identify, process and contextualise information needs. This shift in approach aligns with the way the Challenge wishes to operate.