

# Oamaru Conference : Dust to Dollars

**Tuesday, 5 November 2024**

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7:30 am to 8:20 am Registration - Oamaru Opera House

8:30 am **Opening Ceremonies:** Chris Smith (Chair NZGA)

8:40 **1: Dust to Dollars**

**Sponsor: AgResearch:  
Chair Chris Smith**

8:45 Opportunities in North Otago  
9:05 History of irrigation in North Otago  
9:25 Options for Genetic progress in pasure plants  
9:45 Where to now for forage productivity in dairying

Grant Ludemann  
Andrew Rodwell  
John Caradus  
Bruce Thorrold

10:00 **Discussion**

10:10 **Morning Tea**

10:50 **2A: Focus on legumes**

**Sponsor: Grasslanz**

10:55 Effect of modern Red Clover & nitrogen fertiliser on yield, quality and botanical composition of hybrid ryegrass pastures over time.

Fraser Harrison

11:05 Spring growth of lucerne (*Medicago sativa* L.) after different times of winter defoliation

Lauren Jones

11:15 Survival of clover rhizobium isolate S11N9 in different formulations: assessment of potential for commercialisation

Shenjing Shi

11:25 Herbicide and fertiliser applications improved clover yields on a low Olsen P site on Port Hills of Canterbury

Sonya Olykan

11:35 Clover and grass foliar nutrients in response to fertilizer and herbicide applications on Port Hills of Canterbury

Sonya Olykan

11:45 **Discussion**

11:55 Pre Field day video

12:05 Break before boarding buses

12:20 Board Buses for Field trip:

1:30 **3A: Farm Host: Rogan Borrie - Sheep and Beef**

**Sponsor: PGG  
Wrightson Seeds**

04:00 Depart for Totara Estate

05:45 **Evening reception: Loan & Merc**

**NZSAP Awards Ceremony**

**Concurrent**

**2B: Animals and genetics**

**Sponsor: Beef + Lamb  
NZ**

Genomic evaluations for New Zealand farmed deer

Roy Costilla

The heritability measures of racing success and longevity in the New Zealand Thoroughbred racing industry.

Nick Sneddon

Applying equineRSU and seasonal livestock correction to multi property equine stud farms types.

YY Chin

Preferences in traits for dairy-beef from a survey of farmers

Nick Sneddon

Life after racing: Descriptors of rehomed Thoroughbred racehorses

Michaela Gibson

Discussion

**Wednesday, 6 November 2024**

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7:30 Registrations - Oamaru Opera House

8:00 **Keynote address: Levy Oration: Sponsor: NZGA: Chair**

**Concurrent**

8:35 **4A: Young presenters**

**Sponsor: NZSAP**

**4B: Agronomy**

**Sponsor: Corteva**

8:40 Genetic variation in skin temperature and genetic associations with production traits in dairy cattle

Jessica Douie

**Presidential Address: Agronomy**

8:50 Effects of measuring methane in pregnant ewes using portable accumulation chambers on pregnancy outcomes and lamb

Jacqui Peers-Adams

About clover

Jo Townshend

9:00 Influence of regenerative versus conventional farming systems on milk production and liveweight in dairy cows

Yaliska Moreno-Gonzalez

Yield and dry matter accumulation of a white clover seed crop sown conventionally in Canterbury

Fiona Anderson

9:10 Measuring Methane in the New Zealand Sheep Flock

Fern Booker

9:20 Comparative study of first lactation performance of Norwegian Red crossbred cows with traditional breeds in New Zealand dairy systems

Becky A Curry

White clover harvest desiccation: are there alternatives to diquat?

Phil Rolston

9:30 Exploration of the New Zealand Deer rumen microbiome

Jordan Clarke

9:40 TBC - NZSAP

The effect of sowing date and establishment method on the germination, yield, botanical composition and nutritive value of plantain on hill country

Lydia Cranston

9:50 Morning tea

10:35 **5A: Diverse pastures**

**Sponsor: Barenbrug**

**5B: Environment: Sources and fate of N**

**Sponsor: Balance  
Agrinutrients**

10:40 Influence of diverse pasture species and reduced nitrogen fertiliser inputs on soil health on four irrigated Canterbury dairy pastures

Nicole Schon

Hereford heifers with lower blood urea nitrogen breeding value excrete urine with lower nitrogen concentration

O Al-Marashdeh

10:50 The dry matter growth, botanical composition, and plant density of a plantain (*Plantago lanceolata* L.) perennial ryegrass (*Lolium perenne* L.) pasture subjected to livestock treading damage in successive years

Sam Wilson

The behaviour and impact of sheep accessing a natural waterway on water quality in spring

A Bunyaga

11:00 Impacts of regenerative agriculture on grassland production: a new farmlet-scale experiment at Lincoln University, New Zealand

Kaitlin Watson

The environmental performance of a ryegrass and baleage wintering system on a poorly-drained soil in southern NZ

Ross Monaghan

11:10 Pasture formulation for optimised yield and weed suppression

Alistair Black

Can biostimulants or controlled release coating improve the nitrogen use efficiency of urea fertiliser?

Racheal Bryant

11:20 Multi-year performance of white clover broadcast into eastern North Island hill country

Mike Dodd

Nitrogen leaching losses from pasture and winter forage crops in the West Matukituki Valley

Chris Smith

11:25 **Discussion**

Discussion

11:35 Change-over

11:40	<b>6A: Economics</b>	<b>Sponsor: Dominion Salt</b>	<b>6B: Predicting animal impacts</b>	<b>Sponsor: Hill Laboratories</b>
11:45	Agroforestry systems for dryland corners in Canterbury farms	Sandra Velarde-Pajares	Adequacy of equations used to predict the contribution of urinary nitrogen to total nitrogen excreted by ruminants	Ronaldo Vibart
11:55	The economic impacts of declining pasture harvest on Te Tai Tokerau and Waikato dairy farms	Ben Marmont	Bulk milk urea as an indicator of herd dietary nitrogen surplus & nitrogen use efficiency on Canterbury dairy farm	Roshean Woods
12:05	Impacts of winter crop choice and ewe body condition score change on whole farm profitability and production	Anna Taylor	A comparison of three models for estimating total ME requirement for ewe, beef breeding cow, lamb, and calf	Joseph Adjabui
12:15	<b>Discussion</b>		<b>Discussion</b>	
12:25	Pre Field day video			
12:35	Break before boarding buses		<b>Concurrent</b>	
12:45	<b>7A: NZGA Field trip</b>	<b>Sponsor: DairyNZ</b>	<b>7B: Agronomy Field Trip</b>	
1:30	<b>Farm hosts: Russell and Cathy Hurst</b>		TopFlite Birdseed	
4:45	Arrive back at venue			
5:30		<b>AGM's</b>		
6:30	<b>Conference Dinner (and NZGT Awards) at the Loan &amp; Merc: Sponsor AgResearch</b>			

### Thursday, 7 November 2024

8:00	<b>Registration - Oamaru Opera House</b>	
8:30	<b>8A: Technology in research and on farm</b>	<b>Sponsor: Ellett Trust</b>
8:35	Streamlining farm grazing records with GPS automation	Wayne Hofmann
8:45	Predicting post-grazing residuals using on-animal sensors: A case study	Wayne Hofmann
8:55	Pasture performance tools and technologies: Current and future state	Sarah Gard
9:05	Combining data sensors to enable the digitisation of the landscape to improve environmental and animal welfare outcomes	David Stevens
9:15	How to improve the legacy value of your dataset?	Carmen Teixeira
9:25	<b>Discussion</b>	
9:30	<b>Morning Tea</b>	
10:20	<b>Presidential Address: NZGA</b>	
10:40	<b>9A: Hot Topics</b>	<b>Sponsor: PGG Wrightsons</b>
10:45	Copper requirements of pasture and animals in New Zealand agriculture	Jeff Morton
10:55	Impacts of Epichloë endophyte mixtures on ryegrass staggers in sheep	Alistair Black
11:05	Interactions between direct reduction of methane emissions and changes in animal productivity, and farm greenhouse gas emissions	Anna Taylor
11:15	Greenhouse Gas Emissions from New Zealand Deer Farming Systems	David Stevens
11:25	Grazing management and the sustainability of beef production systems in New Zealand	Gerald Cosgrove
11:35	<b>Discussion</b>	
11:45	<b>10: Future Farms</b>	<b>Sponsor: Ravensdown</b>
11:50	Exploring management strategies for pasture-based extended lactation systems	Lydia Farrell
12:00	White clover with enhanced animal health benefits	Marissa Roldan
12:10	Animal performance over 16 years after implementing a lucerne grazing system on Bog Roy Station	Derrick Moot
12:20	Exploring potential dairy and cropping farm integration to enhance circularity: A case study analysis from Oamaru's coastal plains.	Banira Lombardi
12:30	<b>Closing session NZGA President Invite to Hamilton</b>	
12:40	<b>Conference closed</b>	
12:50	<b>AgYields database meeting</b>	<b>Derrick Moot</b>

### Thursday, 7 November 2024

	<b>Concurrent</b>	
8:30	<b>8B: Crop Management</b>	<b>Sponsor</b>
8:35	Effect of row spacing and N input on the grain yield of industrial hemp cultivars	Simon Cabout
8:45	Rate and duration of grain filling of Graham winter wheat under three sowing dates in Canterbury, New Zealand	Thinzar Soe Myint
8:55	Tillering dynamics of four autumn-sown wheat cultivars grown in Canterbury, New Zealand	Zoong Te Mang
9:05	Nitrogen use efficiency (NUE) indicators for the arable sector: model initialisation using historical data	Emmanuel Chakwizira
9:15	Assessing New Zealand wheat genotypes on canopy closure and light interception as an Integrated Weed Management Strategy	Pieter-Willem Hendriks
9:25	<b>Discussion</b>	
9:30	<b>Concurrent</b>	
10:20	<b>Presidential Address: NZSAP</b>	
10:40	<b>9B: Animal nutrition</b>	<b>Sponsor: Agricom</b>
10:45	Liveweight, body composition, carcass traits and meat quality of artificially reared milk-fed Friesian x Jersey crossbred calves	Sue McCoard
10:55	The intra-uterine effects of a maternal winter diet of either kale or fodderbeet on measures of calf stature and bone morphology at birth	Michaela Gibson
11:05	Can the effects of intrauterine growth retardation on bone morphology be overcome by first calving?	Michaela Gibson
11:15	Effect of feeding a hyper-diverse pasture mix on pre-weaning ewe and lamb performance	Gabriella Gronqvist
11:25	Impact of offering reticulated water to ewes during late-pregnancy: impact on indicators of dehydration and productivity	Rene Corner-Thomas
11:35	<b>Discussion</b>	