

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 pasture 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 Clover and grass foliar nutrient responses to phosphorus and molybdenum fertilisers, and herbicide application on a summer dry hill pasture

Sonya Olykan

11:35 Subterranean clover growth responded to grass suppression, phosphorus and molybdenum fertilisers in a summer dry hill environment

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.

Yin 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

White clover harvest desiccation: are there alternatives to diquat?

Phil Rolston

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

Becky A Curry

9:30 Exploration of the New Zealand Deer rumen microbiome

Jordan Clarke

9:40 Influence of the 'SLICK' allele of the prolactin receptor gene (PRLR) on the growth and behaviour of dairy heifers during winter.

Luke Robb

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

Omar 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

Rene Corner-Thomas

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	6A: Economics	Sponsor: Dominion Salt	6B: Predicting animal impacts	Sponsor: Hill Laboratories
11:45	Agroforestry systems for dryland corners in Canterbury farms	Kyle Wills	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	Animal performance over 16 years after implementing a lucerne grazing system on Bog Roy Station - a case study	Derrick Moot	A comparison of three models for estimating total ME requirement for ewe, beef breeding cow, lamb, and calf	Joseph Adjabui
12:15	Discussion		Discussion	
12:25	Pre Field day video			
12:35	Break before boarding buses		Concurrent	
12:45	7A: NZGA Field trip	Sponsor: DairyNZ	7B: Agronomy Field Trip	
1:30	Farm hosts: Russell and Cathy Hurst		TopFlite Birdseed	
4:45	Arrive back at venue			
5:30		AGM's		
6:30	Conference Dinner (and NZGT Awards) at the Loan & Merc: Sponsor AgResearch			

Thursday, 7 November 2024

8:00	Registration - Oamaru Opera House	
8:30	8A: Technology in research and on farm	Sponsor: Ellett Trust
8:35	Automating dairy farm grazing records using GPS technology	Wayne Hofmann
8:45	Assessing the validity of sensor-based predictions of post-grazing residual in dairy systems	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	Discussion	
9:30	Morning Tea	
10:20	Presidential Address: NZGA	
10:40	9A: Hot Topics	Sponsor: PGG Wrightsons
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	Regenerative grazing practices and the sustainability of a beef production system in New Zealand	Gerald Cosgrove
11:35	Discussion	
11:45	10: Future Farms	Sponsor: Ravensdown
11:50	Evaluating management strategies for a pasture-based extended lactation system with 24-month calving intervals	Lydia Farrell
12:00	Condensed tannin expression in white clover leaves for enhanced animal health benefits	Marissa Roldan
12:10		
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	Closing session NZGA President Invite to Hamilton	
12:40	Conference closed	
12:50	AgYields database meeting	Derrick Moot
	Impacts of winter crop choice and ewe body condition score change on whole farm profitability and production	Anna Taylor

Thursday, 7 November 2024

	Concurrent	
8:30	8B: Crop Management	Sponsor
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	Discussion	
9:30	Concurrent	
10:20	Presidential Address: NZSAP	
10:40	9B: Animal nutrition	Sponsor: Agricom
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	Discussion	