

Programme: New Zealand Grassland Association Conference
Hosting the New Zealand Society of Animal Production and Agronomy NZ
Day One: Tuesday

Registration Ascot Park Hotel, Invercargill Monday 4:30-6:30 pm and Tuesday 7:30 am

8:30 SESSION 1: Grazing the Deep South, Chair Warren King Sponsor: AgResearch

8:30	<i>Laurie Copland</i> (President NZGA)	Welcome to the Conference
8:35	<i>Chris Smith</i> (Chair LOC)	LOC Chair welcome
8:45	<i>Sue Bidrose</i> (AgR CE)	The approach of a new era of public-good science funding
9:00	<i>Jeff Grant</i> (Thriving Southland)	Thriving Southland: the future
9:15	<i>Ronaldo Vibart</i>	Greenhouse gas emissions from New Zealand sheep and beef farms
9:30	<i>Jacqueline Rowarth</i>	New-generative agriculture based on science, informed by research and honed by New Zealand farmers
9:45	<i>Tricia Johnson</i>	A review of the current sheep industry in New Zealand and opportunities for change to meet future challenges

CONCURRENT NZGA, NZSAP and Agronomy SESSIONS

10:30 Warren King NZGA Presidential Address

10:50 SESSION 2A: Grasslands, Chair Alistair Black Sponsor: Grasslanz

10:55	<i>Sonya Olykan</i>	AgYields - a national database for collation of past, present and future pasture and crop yield data
11:05	<i>Katherine Tozer</i>	Effect of deferred grazing during late spring and summer on pasture productivity in Waikato and Bay of Plenty
11:15	<i>Gerald Cosgrove</i>	Persistence of perennial ryegrass, tall fescue and cocksfoot following sequential annual sowings: pasture yield, composition and density in three establishment years under cattle grazing in Waikato
11:20	<i>Katherine Tozer</i>	Impact of pasture height and herbage mass on suppression of variegated thistle in North Island East Coast
11:25	<i>Thinzar Myint</i>	Nitrogen effects on species' contributions to grazed pasture mixtures under nitrogen loss and application restrictions
11:30	<i>Jeff Morton</i>	A summary of research results on pasture responses to fertiliser and lime in the South Island Hill and High Country

11:35 FACILITATED DISCUSSION

10:30 Nick Sneddon NZSAP Presidential Address

10:50 SESSION 2B: Animals, Chair Nick Sneddon Sponsor: Beef+Lamb NZ

10:55	<i>Sue McCoard</i>	Impact of casein- versus whey-based lamb milk replacers on growth and health of artificially-
11:05	<i>Tricia Johnson</i>	Investigating the potential for global positioning satellite data to provide information on ewe behaviour around the time of lambing
11:15	<i>Laura Deeming</i>	Investigating the pattern of lameness prevalence in dairy goats across the first two years of life
11:20		
11:25	<i>Rhiannon Handcock</i>	Genetic parameters for urination traits and their relationships with production traits of grazing dairy cattle

11:35 FACILITATED DISCUSSION

SESSION 2: CONCURRENT NZGA, NZSAP and Agronomy Sessions (TUESDAY contd)

10:30 **Craig McGill** Agronomy Presidential Address

10:50 SESSION 2C: Crop Physiology

10:55 *Lauren Jones* The impact of different post-harvest residue management practices on a Tall Fescue (*Festuca arundinacea*) seed crop with full straw load retained

11:05 *Colin Eady* Relative *Epichloë* endophyte fungal biomass in ryegrass tillers grown pre and post vernalization

11:15 *Henk van Zyl* Evaluation of tillage practices for maize in a rotation system for market gardening in the Waikato region of New Zealand

11:25 *Emmanuel Chakwizira* Yara N-tester chlorophyll meter calibration: a prequel

11:35 **FACILITATED DISCUSSION**

SESSION 3: CONCURRENT NZGA, NZSAP and Agronomy Sessions

11:50 **SESSION 3A: Legumes, Chair Laura Keenan** **Sponsor: Agricom**

11:55 *Angus Heslop* Response of white clover cultivars to sheep and beef cattle grazing management across three pastoral environments in NZ

12:05 *John Chapman* Legumes are the key to increasing productivity at 'Inverary', a summer moist hill/high country farm in mid-Canterbury

12:15 *Sonya Olykan* Refining foliage sampling protocols for white clover

12:20 *Sonya Olykan* Growth rates and persistence of annual and perennial clovers

12:25 *David Stevens* Can *Lotus pedunculatus* over-sowing in low fertility hill country increase farm resilience?

12:30 *Grace Ehoche* Developing genomic selection for dry matter yield in white clover

12:35 **FACILITATED DISCUSSION**

11:50 **SESSION 3B: Animal Behaviour, Chair Rene Corner-Thomas** **Sponsor: DairyNZ**

11:55 *Lucy Hall* Changes to cow behaviour when transitioning from twice a day to a 3-in-2 milking schedule

12:05 *Natalia Martin* Temperament of hand-reared beef-cross-dairy cattle does not influence production traits

12:15 *Gavin Sheath* Grazing behaviour of young cattle around faecal pats

12:20

12:25 *Tricia Johnson* Preliminary investigations in to genetic variation in distance travelled by young sheep

12:35 **FACILITATED DISCUSSION**

11:50 SESSION 3C: Forage Crop management

11:55 *Wayne Nichol* The benefit of precision planted, pelletised swede seed when sown in cultivated soil in Canterbury and Southland

12:05 *Steve Dellow* Sowing strategy of winter-sown oats catch crops affects crop development and nitrogen uptake

12:15 *Aung Thant* Productivity and quality of kale, swede, fodder beet and maize in Manawatu

12:25 **FACILITATED DISCUSSION**

Day One: TUESDAY Field trip Options

Option 1	SESSION 4A: Southern Dairy Hub Field trip	Sponsor: DairyNZ
Option 2	SESSION 4B: Agronomy field trip: Blueberry Country and Auld Distillery (pre-registration required—limited to 60 participants).	
12:50	<i>Board the buses</i>	
5:00 pm	Depart field tour venues	
5:45 pm	Bill Richardson Transport Museum—Drinks and Light meal	
		Sponsor: Ballance Agri-nutrients
7:20 pm	NZ Grassland Trust Awards, Life Membership presentation	
10:00 pm	Finish Day One	

Day Two: WEDNESDAY

8:00	Keynote Address: NZGA Levy Oration/Living Legends	Chair: Warren King
8:35	SESSION 5: International , Chair Mike Dodd	Sponsor: Dominion Salt
8:40	<i>Cameron Ludemann</i>	Forage Value Index for Sheep and Beef
8:50	<i>Norton Atkins</i>	Outwintering in the UK
9:00	<i>Mancoba Mangwe</i>	Partial replacement of ryegrass and clover herbage with chicory to alter urination behaviour and soil nitrogen loading of grazing dairy cows
9:10	SESSION 6: Young Presenters, Chair Nick Sneddon	Sponsor: Massey University
9:15	<i>Jacqueline Peers-Adams</i>	An evaluation of the FeedSmart app
9:20	<i>Charlie Bennett</i>	Can GreenFeed automated emissions monitoring systems measure methane output from young red deer grazing pasture?
9:25	<i>Yuxin Fu</i>	Effect of concurrent pregnancy on the persistency of lactation in dairy cows milked once a day
9:30	<i>Swati Jivanji</i>	Genome-wide association study of UV-protectant circumocular pigmentation in Hereford cattle
9:35	FACILITATED DISCUSSION	
9:45	<i>David Chapman</i>	Greener Pasture: reporting back from the Resilient Pastures Symposium
9:55	MORNING TEA	

Day Two: WEDNESDAY

10:15 SESSION 7A: Advanced Genetics, Chair Rhiannon Handcock

Sponsor: Barenbrug

SESSION 7B: A Changing Climate, Chair Jo Kerslake

Sponsor: Fonterra

10:20 *Michael Lee* Genomic evaluations of sheep in New Zealand

Mhairi Sutherland Do cows with facial eczema feel pain?

10:30 *Sai Arojju* Forecasting the genetic and economic impacts of genomic selection in perennial ryegrass

Andrew Fletcher

Emissions improbable: how inappropriate use of the Global Livestock Environmental assessment model can overestimate the emissions associated with dairy production chains

10:40 *David Scobie* Dominant mutation(s) for low fibre curvature in the wool of sheep

Stephanie Langer Improving irrigation management on hillslope pastures

10:45 *Michael Lee* Optimising a panel of single nucleotide polymorphisms for genomic prediction in New Zealand sheep

Stephanie Langer

Understanding water losses from irrigated pastures on loess-derived hillslopes

10:50 *Marty Faville* Genomic assessment of white clover and perennial ryegrass genetic resources

Rene Corner-Thomas

A comparison of the lamb performance of Romney and F1 Wiltshire crosses to weaning

10:55 *Marty Faville* An empirical assessment of a genomic breeding strategy in perennial ryegrass

Sam Peterson

The effects of out-of-season breeding on wool production and lamb birth weight

11:00-11:10 FACILITATED DISCUSSION

FACILITATED DISCUSSION

11:15 SESSION 8A: Wintering, Chair Dawn Dalley

Sponsor: PGG Wrightson Seeds

SESSION 8B: N in the Environment, Chair Jane Chrystal

Sponsor: Hill Laboratories

11:20 *Matt Canton* Farming with reduced winter cropping: the risks and practicalities

Sarmini Maheswaran

Effects of alternative forages on nitrate leaching under intensive sheep grazing

11:30 *Andrew Dumbleton* Grasslands development of 'Pallaton' *Raphanobrassica*

Alistair Black

Nitrate effects on N₂ fixation, growth and feed quality of lucerne and perennial lupin

11:40 *Graeme Pitman* Comparing a covered stand-off pad for on/off grazing during winter with conventional winter grazing

Chris Smith

Nitrogen leaching losses from fodder beet and kale crops grazed by dairy cows in southern Southland

11:45 *Roshean Woods* The effect of winter fodder beet or kale allocation on behaviour and blood metabolite status of non-lactating dairy cows

Tania Gunn

Quantification and mitigation of nitrogen leaching in a maize cropping system

11:50 *Roshean Woods* Impact of winter fodder beet or kale allocation on body condition score gain and early lactation performance of dairy cows

Ronaldo Vibart

Sheep dung disappearance from grazed hill country landscapes

11:55 *Tricia Johnson* Impact of winter near-maintenance or non-restricted feeding on growth and carcass characteristics of ram lambs

12:00 FACILITATED DISCUSSION

FACILITATED DISCUSSION

Day Two: Field Trips

12:50 *Board the buses*

4:00 pm Depart field tour venues

5:30-6:30 Annual General Meeting of the Organisations

7:00pm

Conference Dinner and Awards evening , Chairs NZGA, NZGT and NZSAP representatives

Sponsor AgResearch

Day Three: THURSDAY

8:30 Keynote Address: Fifty years of Agronomy
Sponsor: Agronomy Society

CONCURRENT SESSION

9:05	SESSION 10A: Greenhouse Gases, Chair Jamie Ward Sponsor: NZAGRC	SESSION 10B: Crop Input Management Sponsor: Corteva
9:10	<i>Anna Taylor</i> Winter crop choice and body condition loss change the eco-efficiency of sheep flocks	<i>Tim Brooker</i> Does the timing and rate of magnesium fertilisers affect yield and quality of winter wheat?
9:20	<i>Ronaldo Vibart</i> Evaluation of existing equations to rank methane yields of sheep fed a range of fresh forages and forage crops	<i>Emmanuel Chakwizira</i> Water use efficiency of raphanobrassica and forage rape
9:30	<i>Maria Della Rosa</i> Volatile fatty acids in rumen samples collected before feeding had a stronger relationship than with post-feeding samples with methane production	<i>Fred Milford-Cottam</i> Effects of an organic seed treatment on the growth and yield of maize in the field
9:35	<i>Tricia Johnson</i> Relationship between rumen attributes and meat and carcass traits in sheep divergently selected for methane yield	
9:40	<i>Zac Beechey-Gradwell</i> Progress towards delivering high metabolizable energy perennial ryegrass	<i>Harry Wulff</i> Growth and dry matter accumulation of three hemp (<i>Cannabis sativa L.</i>) cultivars sown on three dates in Canterbury

9:45 FACILITATED DISCUSSION

10:00 Morning Tea

10:30 Guest Speaker: Tangiroa Walker—Farm4Life, Chair Jo Kerlake

	SESSION 11: Farm Systems (Animals), Chair Sue McCoard	Sponsor: PGG Wrightson
11:15	<i>Paul Edwards</i> The fate of calves born on New Zealand dairy farms and farmer attitudes towards producing dairy-beef calves	
11:25	<i>Jamie Ward</i> Is there sire variation in seasonal liveweight gain of rising yearling red deer?	
11:35	<i>Sue McCoard</i> Impact of change in body condition score in mid-late pregnancy in ewes fed a mixed diet on lamb survival and performance	
11:40	<i>Grant Anderson</i> Using a pasture growth model to mitigate satellite estimation saturation	
11:45	<i>Anna Taylor</i> Size of the prize: the value of closing pasture yield gaps on heterogeneous soil types in a dairy farm in Canterbury, New Zealand	
11:50	<i>Racheal Bryant</i> Effect of farm system and milk urea phenotype on milk yield and milk composition of dairy cows in Canterbury	
11:55	<i>Racheal Bryant</i> Effects of substituting autumn N fertiliser with GA on feed supply and milk production	

12:00 FACILITATED DISCUSSION

	SESSION 12: Farm Systems (Pastures), Chair Laurie Copland	Sponsor: Ravensdown
12:15	<i>Mike Dodd</i> Quantifying the value proposition for white clover persistence on a New Zealand summer-dry hill-country farm	
12:25	<i>Warren King</i> Variable-rate application of fertiliser – a new tool for farm system and environmental performance	
12:35	<i>Sharon Lucock</i> Factors influencing fertiliser and lime decisions on South Island high- and hill-country farms	
12:40	<i>Victoria Westbrooke</i> Potential profit gains from improving pasture productivity on New Zealand South Island high-country farms	

12:45 FACILITATED DISCUSSION

1:00 Closing and Invite to Rotorua 2023 **NZGA Chair**