



THE GLOBAL STANDARD  
FOR LIVESTOCK DATA



# ICAR CONFERENCE 2017

11–16 June  
Edinburgh, Scotland

[www.icar2017.co.uk](http://www.icar2017.co.uk)



## BIG IDEAS FOR BIG DATA

# Highly Reliable and Accurate Dairy Components Analysis



Milk Chemical Composition and Somatic Cells

## Bentley Combi FTS:

Rapid and accurate determination of milk chemical composition (fat, protein, lactose, solids,+++ ) by FTIR spectroscopy, and somatic cells content by flow cytometry

- Highly reliable and accurate (up to 60 components)
- Up to 600 samples/hour
- Open system (spectral database/calibration)
- Optimized connectivity and traceability
- Enhanced samples identification (barcode/RFID)
- Extensive remote diagnostic capabilities
- Fully compliant with ISO/IDF standards requirements
- Fully compatible with Intellitech ILAS 3000 robot



Milk Total Flora and Somatic Cells

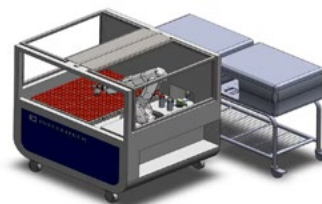
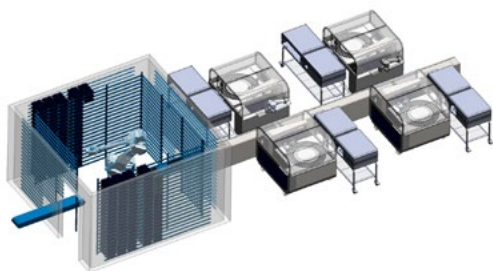
## BactoCount IBC 50-200:

Rapid and accurate determination of raw milk total flora (cow, sheep, goat and buffalo) and somatic cells by flow cytometry

Optimize your productivity:

- From 50 to 200 samples/hour
- Fully automated and standardized
- Very easy to use and maintain
- Optimized connectivity and traceability
- Approved for milk payment
- First ISO 16140 Certified instrument
- Fully compatible with Intellitech ILAS 4000 robot

### OTHER BENTLEY SOLUTIONS:



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[www.bentleyinstruments.com](http://www.bentleyinstruments.com)



# WELCOME

Dear colleagues, guests and friends,

We are delighted to welcome you to Edinburgh for the 41st ICAR Conference at the heart of Scotland's beautiful capital city. It's home to the Edinburgh castle which you will experience first-hand in a private viewing at our opening ceremony as well as a spectacular mini-tattoo provided by Beat the Retreat.

The Edinburgh International Conference Centre (EICC) is one of the world's outstanding venues and the purpose-built centre offers the very best facilities and technology. We hope it will serve as a great platform for all those who work in animal recording to meet, exchange their experiences and discuss recent developments in their fields of interest. Please also ensure that you visit our sponsors and exhibitors during the various conference refreshment breaks.

The conference programme will be delivered by over 40 speakers, representing experiences from more than 15 different countries globally, and will consider the process for establishing national 'data hubs', developments in collecting and integrating new traits data as well as the impact and opportunities arising from sensor technologies and Big Data.

We hope that you will pick up valuable new knowledge and connections from your attendance, but wish also for you to leave with enjoyable memories.



**Marco Winters**  
Chair of the Local Organising Committee

We extend a very warm welcome to you for ICAR 2017 in the beautiful city of Edinburgh. The programme this year has been constructed bearing in mind that there are 3 ICAR meetings in 18 months, with the next one being in New Zealand in February 2018. This has provided us with the opportunity to focus the 2017 meeting on some of the more strategic issues confronting those ICAR organisations whose business is in data recording.

The rapid deployment of genomics in the dairy industry has been very disruptive and its full force has yet to be felt. That coupled, with the rapid rise of new sensor technology reaching a degree of maturity that makes its use in agriculture now feasible, means

ICAR members will be confronted with a veritable feast of competing demands for data, information, services and heightened farmer expectations for integrated data solutions. The programme has speakers on all of these areas and plenty of time has been set aside to discuss the implications of a data explosion for ICAR members and their customers.

I hope you come armed with plenty to say!



**Mike Coffey**  
Programme Committee Chair

## CONFERENCE WEBSITE

[www.icar2017.co.uk](http://www.icar2017.co.uk)

## CONFERENCE VENUE

**Edinburgh International  
Conference Centre (EICC)**

The Exchange  
Edinburgh  
EH3 8EE  
Scotland



# GENERAL INFORMATION

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## OPENING CEREMONY VENUE

**Wednesday 14 June**

Edinburgh Castle  
Castlehill, Edinburgh  
EH1 2NG

## GALA DINNER VENUE

**Thursday 15 June**

Mansfield Traquair  
15 Mansfield Place,  
Edinburgh EH3 6BB

## NAME BADGES

Official conference name badges will be required to enter all areas of the conference and social events. Only delegate and sponsor badges will be allowed access to the main conference sessions, exhibitor badges only allow access to the exhibition and lunch areas.

Participants who lose their badges will have to pay a fee of £30 for a replacement.

## LUNCH TICKETS

You have been provided with lunch tickets, these will need to be handed in at the door of Cromdale Hall to gain access during the lunch break.

## LIABILITY AND INSURANCE

The conference secretariat and organisers cannot accept liability for personal accidents or loss of or damage to private property of participants and accompanying persons. Participants are advised to take out their own personal travel and health insurance for their trip.

## CONTACT DETAILS

**Jenna Porch**  
Event Manager  
+44 (0) 7773 167 523

**Hannah Newby**  
Event Executive  
+44 (0) 7891 534 725



# VENUE INFORMATION

## LEVEL 0

The map shows the layout of Level 0 of Strathblane Hall. The central area is the Lomond suite, which is divided into several rooms: Lomond foyer, Moorfoot, Tinto, Kilsyth, and Business Centre. To the right of the Lomond suite is the Atrium, which has an entrance labeled 'Atrium Entrance'. The main entrance is labeled 'Strathblane Entrance'. There are also stairs leading up and down from the Atrium. Icons for accessibility (wheelchair, stroller, etc.) are shown near the entrances and stairs. A red icon of a person presenting at a screen is located to the right of the map.

### PLENARY SESSIONS

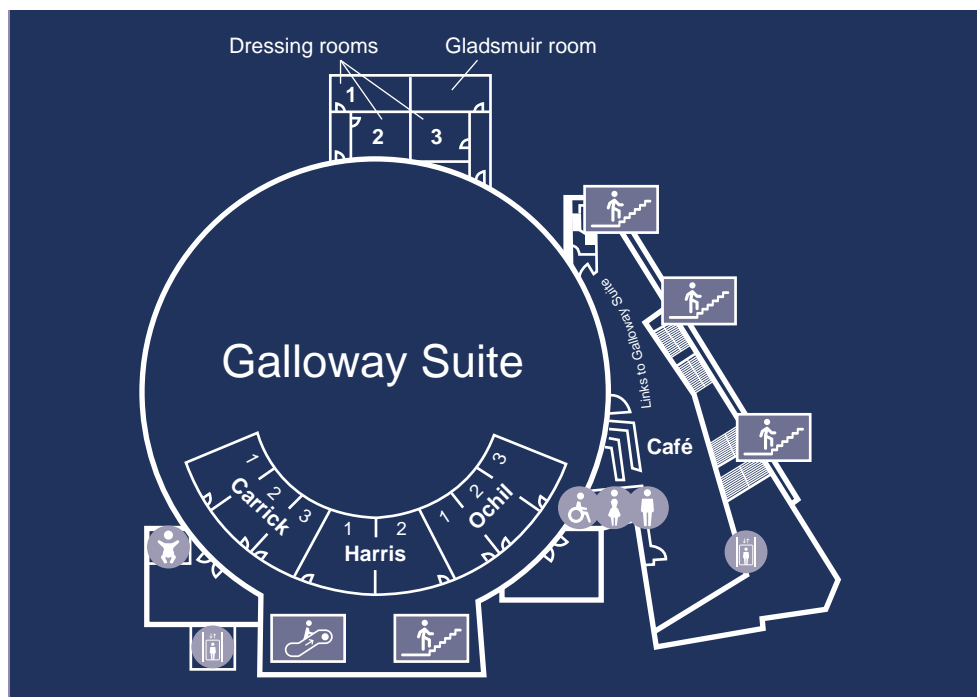
All conference sessions will be held in the Lomond Suite on the ground floor.

## REGISTRATION OPENING HOURS (STRATHBLANE HALL)

DATE	TIMES	REGISTRATION TYPE
Monday 12 June	08:00 – 18:00	Working group members only
Tuesday 13 June	08:00 – 14:00	Working group members only
Tuesday 13 June	13:00 – 18:00	Exhibitors only
Tuesday 13 June	16:00 – 18:00	Early delegate registration
Wednesday 14 June	08:00 – 18:00	Pre-registered delegates On site registrations Gala dinner/technical tour bookings
Thursday 15 June	08:00 – 15:30	Pre-registered delegates On site registrations Gala dinner/technical tour bookings

# VENUE INFORMATION

## LEVEL 1

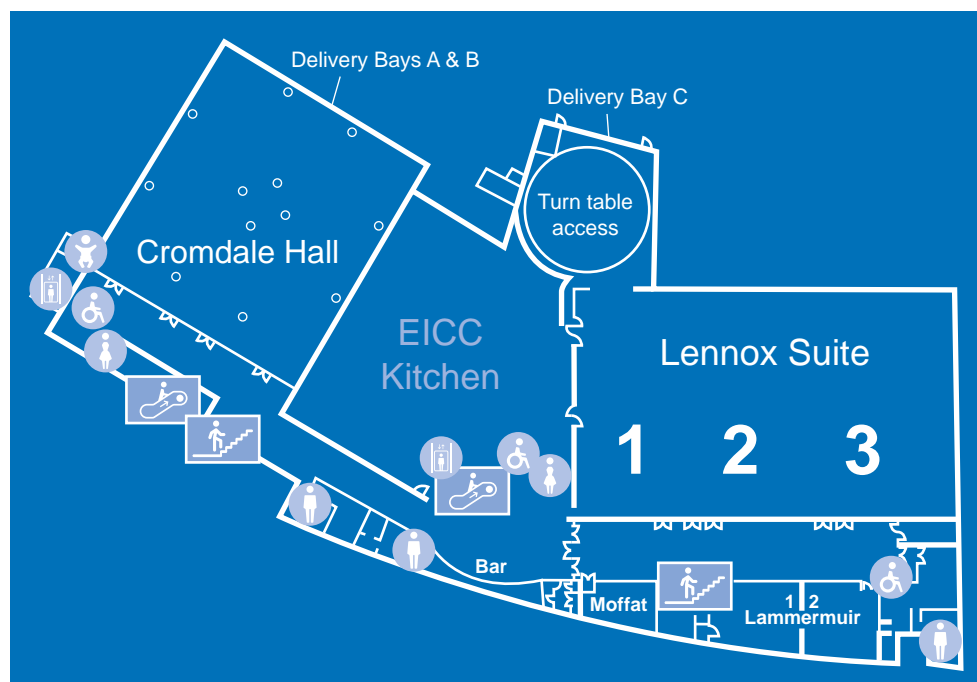


### WORKING GROUP MEETINGS

All working group meetings will be held in the Harris, Ochil or Carrick suites on the first floor. Please refer to the programme to identify the correct room for your meeting. Lunch and refreshments on Monday and Tuesday will be served in Strathblane Hall (Level 0).



## LEVEL -2



### MAIN CONFERENCE DAYS

All refreshment breaks during the conference will be held in Cromdale Hall alongside the exhibition stands, this can be found on Level -2.





7–11 February 2018

THE GLOBAL STANDARD  
FOR LIVESTOCK DATA

Annual Conference

icar2018.nz

AOTEA CENTRE, AUCKLAND, NEW ZEALAND

The combined **ICAR Annual Conference** and **Interbull Annual Meeting** brings together the leading scientists in animal recording, measurement, and genetic evaluation from up to 59 countries. It is a showcase for new technologies and developments in these areas. In combining with the **World Congress on Genetics Applied to Livestock Production (WCGALP)**, delegates will get the full package across numerous species from parentage verification to genotyping to phenotyping to genetic evaluation.

The 2018 Interbull Annual Meeting, the leading event for research and development in bovine genetic and genomic national and international evaluations, will be held as part of the joint ICAR and WCGALP meeting in Auckland.

New Zealand is the home of many of the foundations of genetic evaluation, animal measurement and recording and continues to be at the forefront of technology development for dairy, sheep, beef, goat, aquaculture, and sheep milking operations. Make your stay a memorable one by taking in the full sights of New Zealand's breath-taking scenery combined with attending both ICAR/ Interbull and WCGALP 2018.

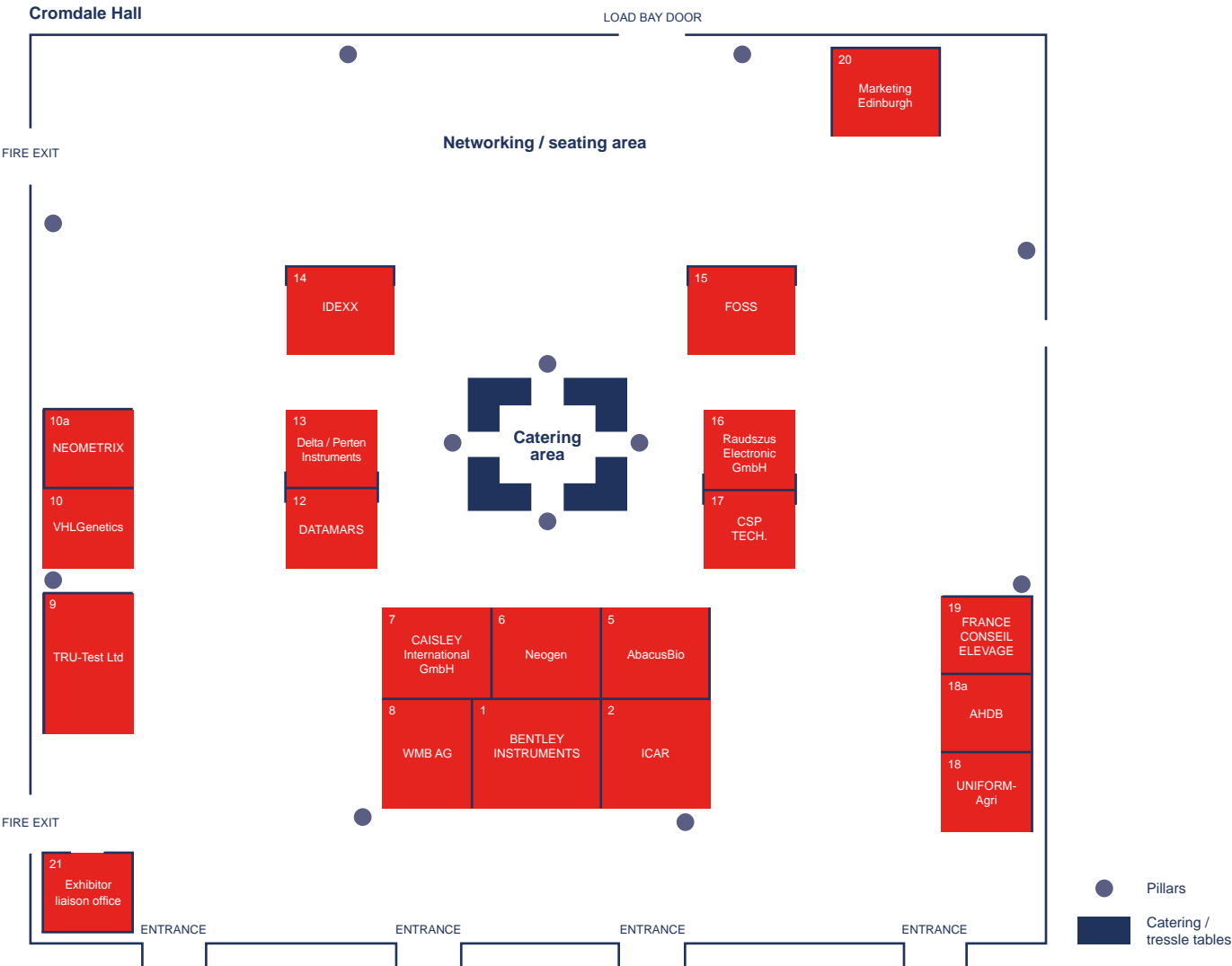
#### Key dates and information

- Registration and accommodation bookings now open
- Call for papers now open
- Call for papers closes 31 August 2017
- Early bird registration closes 30 November 2017.



For more information  
and to register  
[www.icar2018.nz](http://www.icar2018.nz)

# EXHIBITION INFORMATION



## EXHIBITION OPENING HOURS

**Wednesday 14 June** 08:30 – 18:00  
**Thursday 15 June** 08:30 – 16:00

**Event manager:**  
Jenna Porch (AHDB Dairy)  
+44 (0) 7773 167 523

**Exhibition liaison:**  
Hannah Newby (AHDB Dairy)  
+44 (0) 7891 534 725





# TECHNICAL PROGRAMME ICAR 2017

# WORKING GROUP MEETINGS

SUNDAY 11 JUNE 2017

	07:00 – 07:30	07:30 – 08:00	08:00 – 08:30	08:30 – 09:00	09:00 – 09:30	09:30 – 10:00	10:00 – 10:30	10:30 – 11:00	11:00 – 11:30	11:30 – 12:00	12:00 – 12:30	12:30 – 13:00	13:00 – 13:30	13:30 – 14:00	14:00 – 14:30	14:30 – 15:00	15:00 – 15:30	15:30 – 16:00	16:00 – 16:30	16:30 – 17:00	17:00 – 17:30	17:30 – 18:00
CARRICK SUITE				BOARDROOM & CATERING AREA																		
SOUTRA ROOM				ICAR SECRETARIAT OFFICE																		

MONDAY 12 JUNE 2017

All meetings are closed except the official Sheep, Goat and Camelid Conference Session

	07:00 – 07:30	07:30 – 08:00	08:00 – 08:30	08:30 – 09:00	09:00 – 09:30	09:30 – 10:00	10:00 – 10:30	10:30 – 11:00	11:00 – 11:30	11:30 – 12:00	12:00 – 12:30	12:30 – 13:00	13:00 – 13:30	13:30 – 14:00	14:00 – 14:30	14:30 – 15:00	15:00 – 15:30	15:30 – 16:00	16:00 – 16:30	16:30 – 17:00	17:00 – 17:30	17:30 – 18:00		
STRATHBLANE HALL	REGISTRATION AREA																							
	CATERING AREA																							
SOUTRA ROOM	ICAR SECRETARIAT OFFICE																							
BUSINESS CENTRE	EVENT STAFF OFFICE																							
HARRIS 1				ISO9001 Internal Auditor Training									Internal Auditor's Forum											
HARRIS 2														Interbeef Technical Group										
OCHIL 1				Functional Traits Working Group									Functional Traits Working Group											
OCHIL 2														Recording and Sampling Devices Working Group										
OCHIL 3														Sheep, Goat and Camelid Conference Session		Sheep, Goat and Camelid Working Group								
CARRICK 1																								
CARRICK 2																								
CARRICK 3																								



# WORKING GROUP MEETINGS

TUESDAY 13 JUNE 2017

All meetings are closed

	07:00 – 07:30	07:30 – 08:00	08:00 – 08:30	08:30 – 09:00	09:00 – 09:30	09:30 – 10:00	10:00 – 10:30	10:30 – 11:00	11:00 – 11:30	11:30 – 12:00	12:00 – 12:30	12:30 – 13:00	13:00 – 13:30	13:30 – 14:00	14:00 – 14:30	14:30 – 15:00	15:00 – 15:30	15:30 – 16:00	16:00 – 16:30	16:30 – 17:00	17:00 – 17:30	17:30 – 18:00
STRATHBLANE HALL	REGISTRATION AREA																					
CROMDALE HALL	EXHIBITION SET UP														EXHIBITION							
	CATERING AREA																					
SOUTRA ROOM	ICAR SECRETARIAT OFFICE																					
BUSINESS CENTRE	EVENT STAFF OFFICE																					
HARRIS 1				Joint Workshop of ICAR-Interbeef members										Interbeef Working Group								
HARRIS 2					Dairy Cattle Milk Recording Working Group										GDMI & Feed and Gas Working Group							
OCHIL 1					Conformation Recording Working Group										DNA Working Group							
OCHIL 2					Recording Sampling Devices Working Group										Animal Data Exchange Working Group							
OCHIL 3					Animal Identification Sub-Committee Meeting										Animal Identification Sub-Committee Meeting							
CARRICK 1					Global Reach Working Group											Sensor Devices Task-Force Working Group						
CARRICK 1					Artificial Insemination and RT Working Group														Milk Analyses Sub-Committee Meeting			
CARRICK 1					Functional Traits Working Group										Functional Traits Working Group							

# CONFERENCE PROGRAMME

WEDNESDAY 14 JUNE 2017

All conference sessions are held in Lomond Suite on Level 0

08:30 – 09:30	ICAR General Assembly
09:30 – 10:30	<b>Local host welcome session</b> Gwyn Jones – Chairman AHDB Dairy Professor Wayne Powell – Principal and Chief Executive of SRUC Gene editing farmed livestock – Chris Proudfoot
10:30 – 11:00	Coffee break & exhibition (Cromdale Hall)
<b>Plenary 1 – Legal implications of data provision services – Chaired by Brian Wickham</b>	
11:00 – 11:15	Data protection aspects by merging cattle data of various origins – <i>R. Knyrim, E. Dolamic, M. Mayerhofer, M. Koblmüller, J. Perner, R. Janacek, G. Schoder, F. Gstöttinger, R. Weissensteiner, B. Fürst-Waltl, M. Schagerl, H. Eder, C. Egger-Danner</i>
11:15 – 11:30	A computerized consent management tool for breeders: why, how? – <i>B. Balvay, L. Journaux</i>
11:30 – 11:45	A Central Database for the Australian Dairy Industry – <i>S. Jenkins, T. Francis</i>
11:45 – 12:00	Smart Dairy Farming 3.0: multiplying innovations on the farmyard – <i>B. van't Land, G. Smeenk, H. Lucas, A. Lamers</i>
12:00 – 13:30	Networking lunch & exhibition (Cromdale Hall)
<b>Session 1 – Robots, Sensors and ICAR – Chaired by Dave Ross</b>	
13:30 – 13:45	Automating the dairy farmer? Understanding the barriers to uptake and use of precision technology in dairy systems – <i>D. McConnell</i>
13:45 – 14:00	Use of daily robotic progesterone data for improving fertility traits in Finnish Ayrshire – <i>J. Häggman, J. Christensen, J. Juga</i>
14:00 – 14:15	Collecting milking speed data as part of official milk recording – <i>R.H. Fourdraine, H. Adams, A. Coburn</i>
14:15 – 14:30	Objective carcass measurement to improve lean meat yield and eating quality in Australian beef, sheep and pork – <i>D. Brown, D. Pethick, P. McGilchrist, C. Ruberg, W. Pitchford, R. Apps, G. Gardner</i>
14:30 – 14:45	Towards a robust protocol for enteric methane measurements using a hand held Laser Methane Detector in Ruminants – <i>T. Bruder, B. Rouille, T. Yan, M. Chagunda</i>
14:45 – 15:00	Sharing data through an API platform – API AGRO – <i>E. Rehben, B. Balvay, T. Haezebrouck</i>
15:00 – 16:00	Coffee break & exhibition (Cromdale Hall)
<b>Manufacturers' Showcase and carry-over effects – Chaired by Steven Sievert</b>	
16:00 – 16:15	Milk sample carry over in the field – identifying and resolving the challenges – <i>J. Frankfort</i>
16:15 – 16:30	Practical Considerations to Reduce Carry-Over in Design of Recording & Sampling Devices – <i>J. Baines</i>
16:30 – 16:45	The new CombiFoss™ 7 DC – Differential Somatic Cell Count and other Advancements in Milk Testing – <i>D. Schwarz</i>
16:45 – 17:00	Employing high resolution big data for predictive modelling in precision dairy farming – <i>G. Katz</i>
17:00 – 17:15	Evaluation of a new qPCR test to specify reasons for total bacterial count in bulk tank milk – <i>S. Sigurdsson, L. Olesen, A. Pedersen, J. Katholm</i>
17:15 – 17:30	Update from IDEXX: Assessing the impact of carry-over in routine DHI milk samples when offering additional testing services (Pregnancy, Johne's, Mastitis etc) through DHI laboratories – <i>H. Pearse</i>
17:30 – 17:45	Update from Bentley Instruments: Latest innovations for the monitoring of milk hygienic quality, methods automation and standardization – <i>P. Broutin</i>
17:45 – 18:00	Practical applications of fatty acid data for the improvement of dairy cattle production and prevention of health issues in transition cows – <i>W. Beukema, D. Barbano, R. Grant, H. M. Dann</i>
19:00 – 22:00	Opening reception at Edinburgh Castle



# CONFERENCE PROGRAMME

THURSDAY 15 JUNE 2017

All conference sessions are held in Lomond Suite on Level 0

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## Plenary 2 – The future of ICAR under alternative phenotyping strategies – *Chaired by Mike Coffey*

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08:30 – 08:45	Delivering value – added services to a diverse customer base – <b>A. Coburn</b>
08:45 – 09:00	Agrimetrics Data Platform – Harnessing and merging big data – <b>D. Flanders, M. Coffey</b>
09:00 – 10:00	Debate with audience participation on Plenary 2 topic – <i>Chaired by M. Coffey</i>
10:00 – 10:30	Coffee break & exhibition (Cromdale Hall)

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## Session 3 – Integrating data to provide added value services – topping up from other data sources – *Chaired by Eileen Wall*

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10:30 – 10:45	Predict, Prescribe, Perform: integrating traditional and new data sources to enable Smart Herd Management – <b>S. van der Beek, H. Knijn, D. Zouari</b>
10:45 – 11:00	The DataGene Herd Test Dashboard – <b>T. Francis, M. Humphris, R. Morris, T. Sargent, R. Shephard</b>
11:00 – 11:15	Genetic evaluation for claw health traits as part of the integrated system for health monitoring in German Holstein dairy cattle – <b>K. Stock, H. Swalve, R. Schafberg, V. Müller-Rätz, F. Reinhardt</b>
11:15 – 11:30	GenoEx Update – <b>B. van Doormaal</b>
11:30 – 11:45	Cow Own Worth – synergising data to provide a new tool to aid in culling decisions in seasonal dairy herds – <b>M. Kelleher, D.P. Berry, P.R. Amer, A. Cromie, R. Evans</b>
11:45 – 12:00	Association between milk fatty acids in early lactation and subsequent reproductive performance of modern high-yielding dairy cows – <b>S. Jorjong, G. Opsomer, J. Chen, A. T. M. van Kneegsel, B. Kemp, V. Fievez</b>
12:00 – 13:30	Networking lunch & exhibition (Cromdale Hall)

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## Session 4 – Impact of genomic services on performance recording organisations – *Chaired by Brian van Doormaal*

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13:30 – 13:45	Possible principles for breed association models in the genomics era, with reference to beef cattle and sheep breeds – <b>R. Banks</b>
13:45 – 14:00	Data collection methods used in the Beef Data and Genomics Programme (BDGP) and the development of Restful API's for recording herd data – <b>C. Vigors</b>
14:00 – 14:15	A Star Tech, The Final Front-MIR: Estimated breeding values for mid-infrared derived predictions of energy traits in dairy cows – <b>S. Smith, V. Hicks, M. Coffey, M. Winters, E Wall</b>
14:15 – 14:30	Implementation of genomic selection in small populations – Croatian case – <b>M. Špehar, Z. Ivkić, M. Dražić, Z. Barać</b>
14:30 – 14:45	Designing a reference population to accelerate genetic gains for novel traits in Canadian Holstein – <b>F. Miglior, L. Brito, P. Martin, J. Jamrozik, F. S. Schenke2, A. Canovas, X. Zhao, C. F. Baes</b>
14:45 – 15:00	INTERBEEF Update – <b>A. Cromie</b>
15:00 – 15:30	Coffee break & exhibition (Cromdale Hall)

*Continued on following page*

# CONFERENCE PROGRAMME

## THURSDAY 15 JUNE 2017 (CONT)

All conference sessions are held in Lomond Suite on Level 0

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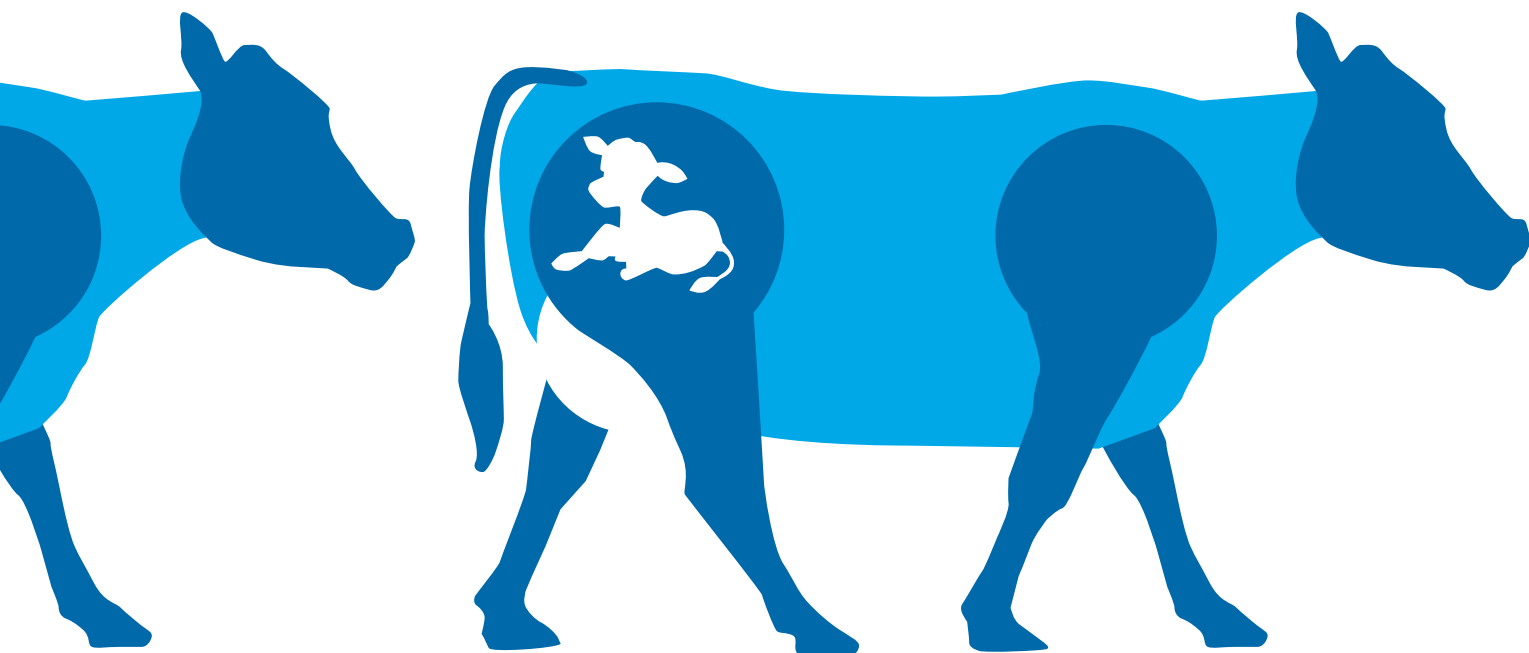
### Session 5 – Methods to gather new phenotypes – *Chaired by Roel Veerkamp*

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15:30 – 15:45	Prediction of energy status of dairy cows using MIR milk spectra – <b>C. Grelet</b> , A. Vanlierde, M. Salavati, Hostens, L. Foldager, F. Dehareng, GplusE Consortium
15:45 – 16:00	Body weight prediction and genetic parameter estimation based on type traits in Italian Holstein cows – <b>R. Finocchiario</b> , J. van Kaam, M. Marusi, M. Cassandro
16:00 – 16:15	Lactose in milk – How can lactose concentration data be beneficial in management and breeding? – <b>P. Løvendahl</b> , M. Riis Weisbjerg
16:15 – 16:30	Individual methane prediction from milk MIR spectra, across multiple breeds, lactation stages, parities and country-specific dairy farming systems – A. Vanlierde, N. Gengler, H. Soyeurt, C. Martin, E. Lewis, F. Grandl, M. Kreuzer, B. Kuhla, P. Lund, C. Ferris, C. Bertozzi, <b>F. Dehareng</b>
16:30 – 16:45	Targeted combination of estimated breeding values for lower accuracy mid-infrared biomarkers increases their usefulness in genetic evaluation of dairy cattle – <b>N. Gengler</b> , GplusE Consortium
16:45 – 17:00	Genetic analyses of ketosis and a newly developed risk indicator in Fleckvieh, Braunvieh and German Holstein – H. Hamann, A. Werner, L. Dale, <b>P. Herold</b>
17:00 – 17:15	Collection and use of new phenotypes in Germany – <b>T. Hauck</b>
17:15 – 17:30	Effectiveness of mid infrared spectroscopy to predict milk phosphorus content – <b>M. Gelé</b> , L. Brun-Lafleur, A. Boudon, P. Gagnon, T. Le Mouél, C. Hurtaud
17:30 – 17:50	Conclusions and next steps in ICAR – <b>M. Burke</b>
19:00 – 00:00	Gala Dinner at Mansfield Tranquair (ticketed event)



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**IDEXX**

# TECHNICAL TOURS

FRIDAY 16 JUNE 2017

## Tour 1

Tour 1 is sponsored by FOSS and will include a tour of the milk Laboratories of National Milk Records (NMR) in Glasgow. NMR will give an update on today's ever-changing quality control landscape with a focus on developments in QC standards. This will be followed up with an overview of developments with analytical technology and the positive implications for dairy herd improvement testing.

Time	Activity
9:00	Leave Edinburgh
10:15 – 10:45	Coffee break at The Innovation Centre, Glasgow
10:45 – 12:15	Presentation from NMR/FOSS
12:15 – 12:45	Lunch at The Innovation Centre
12:45 – 14:30	Tour around laboratory
16:00 – 17:00	Sightseeing – The Kelpies
17:45	Arrive back in Edinburgh

**FOSS**

**Catch the next  
big wave  
in milk testing**

introducing the new  
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# TECHNICAL TOURS

FRIDAY 16 JUNE 2017

## Tour 2

Tour 2 will include a visit to a 170 cow milking pedigree Holstein herd in Fife, with a member of the herd representing the UK at last year's European Holstein Show. The herd recently invested in new buildings and milking robots. The tour will also visit a cross-breeding autumn calving grazing herd of 160 head which forms part of a family business running 400 cows plus followers on two dairy units covering 450 acres near Lanark. The herd owner also completed a Nuffield Scholarship focussing on the key attributes of enterprising rural businesses.

Time	Activity
9:30	Leave Edinburgh
10:45 – 12:30	Nether Affleck Farm tour
12:30 – 13:00	Lunch
14:15 – 15:00	Sightseeing – The Kelpies
15:40 – 17:00	Parkend Farm tour
17:45	Arrive back in Edinburgh

## Tour 3

Tour 3 will include the SRUC's Beef feed efficiency unit at Easter Bush and a visit to a Texel farm in Lanarkshire. This flock has been recording since the 1980s and has been exporting live animals to continental Europe as well as semen to continental Europe, Brazil and New Zealand. In addition, the farm has a herd of 60 Suckler cows.

Time	Activity
9:30	Leave Edinburgh
10:00 – 11:30	Easter Bush tour
12:15 – 13:00	Lunch, tea/coffee at Laird farm
13:00 – 14:30	Laird farm tour
15:45 – 17:00	Sightseeing – The Kelpies
17:45	Arrive back in Edinburgh

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# SPONSORS OF ICAR 2017

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## FOSS

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# EXHIBITORS AT ICAR 2017

## ABACUSBIO

Exhibitor

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## DELTA / PERTEN INSTRUMENTS

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## FRANCE CONSEIL ELEVAGE

Exhibitor

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## NEOGEN

Exhibitor

European Headquarters of Neogen Corporation, The Dairy School, Auchincruive, Ayr, KA6 5HU, Scotland, United Kingdom

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## NEOMETRIX

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## RAUDSZUS ELECTRONIC GMBH

Exhibitor

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# EXHIBITORS AT ICAR 2017

## TRU-TEST LTD

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## UNIFORM-AGRI

Exhibitor

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## VHLGENETICS

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## WMB AG

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*Switzerland*



# NOTES



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# NOTES



EINFACH – SICHER – IDENTIFIZIEREN  
EASY – SAFE – IDENTIFICATION

**Caisley**  
INTERNATIONAL GMBH



## ANIMAL IDENTIFICATION SYSTEMS

EARTAGS FOR LIVESTOCK  
ELECTRONIC IDENTIFICATION  
TISSUE SAMPLING EARTAGS



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