

WORKSHOPS

Veterinary clinical epidemiology: the basics

Session organisers: **Mirjam Nielen & Else den Boer**

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Inferential modelling with wide data: use of regularisation, variable stability and triangulation to enhance interpretation of results

Session organisers: **Martin Green & Robert Hyde**

Email: martin.green@nottingham.ac.uk

Spatial visualisation of health events: A hands-on practical with R

Session organisers: **Brandon Hayes & Timothée Vergne**

Email: brandon.hayes@envt.fr and timothee.vergne@envt.fr

Introduction to Game Theory and its applications to animal health

Session organisers: **Pablo Alarcon, Alexis Delabouglise & Guillaume Fournie**

Email: paralcon@rvc.ac.uk, alexis.delabouglise@cirad.fr and gfourmie@rvc.ac.uk

Disease outbreak investigations: practical epidemiological considerations

Session organisers: **Fraser Menzies & Maria O'Hagan**

Email: fraser.menzies@daera-ni.gov.uk and maria.o'hagan@daera-ni.gov.uk

Substantiating freedom from infection: available statistical methods to prove freedom from infection in an output-based framework

Session organisers: **Eleftherios Meletis & Aurélien Madouasse**

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SOCIETY FOR VETERINARY EPIDEMIOLOGY AND PREVENTIVE MEDICINE
ANNUAL CONFERENCE
WEDNESDAY 23 MARCH – FRIDAY 25 MARCH 2022
Belfast, Northern Ireland

Wednesday 23 March 2022

09.00 – 12.00

Workshops

Workshop 1: Veterinary clinical epidemiology
Workshop 2: Inferential modelling with wide data
Workshop 3: Spatial visualisation of health events
Workshop 4: Introduction to Game Theory
Workshop 5: Disease outbreak investigations
Workshop 6: Substantiating freedom from infection

12.00 – 13.00

LUNCH

Session 1:
Chair: Gerdien van Schaik

Opening the Conference

Robert Huey, Chief Veterinary Officer for Northern Ireland

The role of vets on the national stage

13.00– 14.00 **Keynote**

Session 2:
Chair: David Brodbelt

Animal movements

Exploring the association between pig transports, veterinarian visits and farm production type to inform risk-based surveillance strategies

14.00 – 14.25 **Duerr**

14.25 – 14.50 **Maximiano Sousa**

Tracking for representativeness: how many days are needed to record a representative home range of free-roaming domestic dogs

14.50– 15.00

5 x 2-minute poster pitches

15.00 – 15.45

COFFEE/TEA & POSTER VIEWING

Session 3:
Chair: Philip Robinson

Qualitative methods in animal health

15.45 – 16.10 **Duran**

The influence of peers networks on antibiotic prescribing practices: evidences from a qualitative study with French poultry veterinarians

16.10 – 16.35 **Smith, A.**

A qualitative approach to investigate how place and risk influences sheep farmers' approaches to the management of sheep scab

16.35 – 17.00 **Elkholly**

Antimicrobial usage in farm animal practices in the UK: a mixed methods approach

17.00 – 17.10

5 x 2-minute poster pitches

17.15-18.00

POSTER VIEWING

18.15-19.00

Drinks reception (Belfast City Hall)

19.00



Dinner (Ten Square Hotel)

Thursday 24 March 2022

Session 4:

Chair: Luis Carmo

Dairy cow health


- 08.30 – 08.55 **Veldhuis** Bayesian diagnostic test evaluation and true prevalence estimation of *Mycoplasma bovis* in dairy cattle
- 08.55 – 09.20 **Wicaksono**  The herd-level association of hormone use for reproductive diseases and heat induction with reproductive performance in Dutch dairy farms
- 09.20 – 09.45 **Bisschop**  The association between longevity and animal health in Dutch dairy herds
- 09.45 – 10.00 *5 x 2-minute poster pitches*

10.00 – 10.30 **COFFEE/TEA & POSTER VIEWING**

Session 5:

Chair: Timothée Vergne

Risk modelling

- 10.30 – 10.55 **Murray** Modelling parasite-driven impacts of aquaculture on wild fish: the case of the salmon louse (*Lepeophtheirus salmonis*)
- 10.55 – 11.20 **Begovoeva**  Risk factors and hot-spot areas of foot-and-mouth disease in small ruminants in northern Nigeria
- 11.20 – 11.30 *5 x 2-minute poster pitches*


11.35 – 13.00 **ANNUAL GENERAL MEETING**

13.00 – 14.00 **LUNCH** 

Session 6:

Chair: Carla Gomes

Porcine disease control

- 14.00 – 14.25 **Picault** Lessons learnt from the first modelling challenge in animal health: improving preparedness to control African swine fever at the interface between livestock and wildlife
- 14.25 – 14.50 **Hayes**  Elucidating African Swine Fever transmission patterns between domestic pigs and wild boar in Romania
- 14.50 – 15.15 **Merca** Application of syndromic surveillance to routinely collected swine production data for farm health management and early disease detection
- 15.15 – 15.25 *5 x 2-minute poster pitches*

15.25 – 16.15 **COFFEE/TEA & POSTER VIEWING**

Session 7:

Chair: Fernanda Dórea

Avian and swine influenza transmission

- 16.15 – 16.40 **Guinat** Disentangling the role of poultry farms and wild birds in the spread of highly pathogenic avian influenza virus H5N8 in Europe
- 16.40 – 17.05 **Sicard** Coupling spatial and temporal structure in batch rearing modelling for understanding the spread of the swine influenza A virus
- 17.05 – 17.30 **Vergne** Interplay between duck farm density and the resilience of the poultry sector to highly pathogenic avian influenza H5N8 in France

19.00 - 01.00

Drinks Reception & conference dinner (Clayton Hotel)

Friday 25 March 2022

Session 8:

Chair: Egil Fischer

Surveillance and control

- 09.00 – 09.25 **Jarynowski** Understanding time series of RFID sensor data for predicting mortality in laying hens
- 09.25 – 09.50 **Smith, G.** Simulating the effects of badger control in Northern Ireland on bovine TB
- 09.50 – 10.15 **Thomann** Smart Animal Health - Health and welfare indicators for livestock

10.15 – 11.00

COFFEE/TEA & POSTER VIEWING

Session 9:

Chair: Marie McIntyre

Emerging methods for veterinary epidemiology

- 11.00 – 11.25 **Messam** Confidence interval interpretation: Introducing confidence interval functions
- 11.25 – 11.50 **Humphry** The benefits of Quantitative Estimation of Population Antimicrobial Resistance (QEPA) in One Health

Session 10:

The Gareth Davies Lecture

Chair: Gerdien van Schaik

Prof. Julie Fitzpatrick: Chief Scientific Advisor for Scotland & Director of the Moredun Institute, Edinburgh

11:50 – 12:40 **Keynote**

Science into Policy: Livestock Science Matters for Planetary Health

12.40 – 13.00

Closing of the Conference

13.00 – 14.00

TAKE AWAY LUNCH 



SRUC presenter is in the contest for the award for best presentation by an early career scientist. The award is sponsored by Scotland's Rural College.

For further information, please contact:
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