

Meeting Programme 14th-15th September 2020

Monday 14th September

09:30 - 09:45 Welcome addresses (Valentina Busin, AVTRW President; Ewan Cameron, Head of School)

09:45 - 10:00 Virtual tour of the University of Glasgow, School of Veterinary Medicine

Session 1. Bringing research to the end-users (impact) and diagnostics. Chair: McNeilly Tom

10:00 - 10:45 Keynote 1. Eckersall David: Veterinary Ventures in Technology Transfer: Biochemical Biomarkers to Developing Diagnostics for End Users.

10:45 - 11:00 O1. Ayala Carlos: Impact and engagement: communicating research in a multi-cultural and multi-disciplinary environment.

11:00 - 11:15 O2. Maughan Jones Charlotte: 'X-ray vision' – Advanced x-ray imaging, the future of medical diagnostics?

11:15 - 11:30 O3. Morgan Genever: A Dog's Dinner: A survey investigating diet choices among UK dog owners.

11:30 - 11:45 Coffee break

11:45 - 12:00 O4. Linardopoulou Konstantina: Lameness detection in dairy cows: Evaluation of the agreement and repeatability of mobility scoring.

12:00 - 12:15 O5. Donlon John Denis: Agreement between Thoracic Ultrasound and a Clinical scoring system in preweaned Irish dairy calves.

12:15 - 12:30 O6. Montout Axel: Accurate and interpretable prediction of poor health in small ruminants with accelerometers and machine learning.

12:30 - 12:45 O7. Macdonald Bethany: The effect of immediate post-birth analgesia provision on the expression of social behaviours in neonatal Holstein dairy calves.

12:45 - 13:00 O8. Kilgour Ashleigh J: Physiological and behavioural impacts of summer rugging on horses in a temperature climate.

13:00 - 14:00 Lunch break

Session 2. Teaching the new generation of professionals. Chair: Gladden Nicola

14:00 - 14:45 Keynote 2. Hammond Jennifer. Training for uncertainty in Veterinary Education

14:45 - 15:00 O9. Debenham John: eClinic – A gamified case simulator.

15:00 - 15:15 O10. Driver Emma: Development of an Undergraduate Veterinary Leadership Framework.

15:15 - 15:30 Coffee break

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- 15:30 - 15:45 O11. Tasker Alex: The 21st Century Vet: Non-clinical EMS for building cross-disciplinary research engagement in veterinary undergraduates.
- 15:45 - 16:00 O12. Watson Fraje: Evolving EMS – adapting learning to suit an ever-changing world. A case study of the “UCL 2020 Veterinary Research Undergraduate Programme”.
- 16:00 - 16:15 O13. Wood Sarah: Directly Observed Procedural Skill (DOPS) assessment of clinical examination skills in cattle: student perceptions.
- 16:15 - 16:30 O14. Woollatt Sarah: Teaching at arm’s length: a farm clinician’s view.
- 16:30 - 16:45 O15. Borkowski Emma: Playing with parasites in a pandemic: A new teaching tool.
- 17:00 Flash poster presentation

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Tuesday 15th September

09:45 - 10:00 Welcoming back to the second day. Professor the Lord Trees.

Session 3. Surveillance. Chair: Martineau Henny

10.00 - 10:45 Keynote 3: Carty Helen. Surveillance shouldn't sit in a silo.

10:45 - 11:00 O16. Clarke AnneMarie: Prioritisation of Animal Health Surveillance Activities in Ireland.

11:00 - 11.15 O17. Havercroft Charlotte Letitia: Demographics and diagnoses of neonatal lamb carcass submissions to APHA for post mortem examination over a ten-year period.

11.15 - 11.30 O18. Macrelli Michele: First report of fatal tick pyaemia caused by heavy infestation with the red sheep tick, *Haemaphysalis punctata* and co-infection with *Babesia* and *Theileria* spp.

11:30 - 11:45 Coffee break

11:45 - 12:00 O19. Geddes Eilidh: Exploiting scanning surveillance data to assess the impact of disease control initiatives and inform future strategies to control endemic diseases. The example of sheep scab.

12:00 - 12:15 O20. Kiernan Kelsey: The occurrence and distribution of antimicrobial resistant bacteria in companion animals at a small animal veterinary hospital.

12:15 - 12:30 O21. McGlennon Abigail. Investigating laboratory diagnoses of equine strangles in the UK and internationally to enhance understanding of disease prevalence and veterinary approaches to diagnosing strangles.

12:30 - 12:45 O22. Kelly Nicholas: A retrospective analysis of dog, cat and rabbit forensic post-mortem examinations, performed at Royal veterinary college 2003-2020, with emphasis upon starvation-based neglect and non-accidental injury.

12:45 - 13:00 O23. Rhodes Victoria: Diagnosis of respiratory disease in Irish dairy calves using thoracic ultrasonography - temporal transitions and association with growth rates.

13:00 - 13:15 O24. O'Neill Lorcan: Antimicrobial resistance in *Escherichia coli* isolates in pigs from farms with differing levels of antimicrobial use: a longitudinal study.

13:15 - 14:00 Lunch break

Session 4. Parasitology. Chair: McAloon Conor

14:00 - 14:45 Keynote 4: Denwood Matt. Diagnostics and parasitology: the problem of mapping diagnostic test results to disease status.

14:45 - 15:00 O25. Gummery Lauren: Clinical features of *T. brucei* ssp. infection in working equids in The Gambia: a prospective clinical case series.

15:00 - 15:15 O26. McGregor Cassandra: Investigating the role of animal movement in the dissemination of roundworm infection and anthelmintic resistance in livestock.

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- 15:15 - 15:30 Coffee break
- 15:30 - 15:45 O27. Aapa Ternenge: Seroprevalence and risk factors associated with canine vector-borne diseases in Nigeria.
- 15:45 - 16:00 O28. Chen Wan: RNA interference in the poultry red mite *Dermanyssus gallinae*.
- 16:00 - 16:15 O29. Evangelista Francisco Miguel Dias: In silico identification of vaccination targets from *Ascaris lumbricoides* and *Ascaris suum* proteomes.
- 16:30 - 16:45 Conference closure
- 17:00 - 18:00 **AVTRW annual general meeting, open to all conference attendees**

Conference Registration

AVTRW Members. Conference attendance is free for AVTRW members. For member registration follow this link: <http://www.avtrw.co.uk/members-area/> (login required).

AVTRW Non-members. Non-members can attend either the whole conference, or just one day. Daily attendance is £25.00 per day and whole conference attendance is £40.00 for non-members. For registration follow this link: <https://www.eventbrite.co.uk/e/74th-annual-avtrw-conference-2020-tickets-111648581914>

Registration can be completed after ticket purchase - instructions for registration will be provided in your ticket confirmation.

Non-members may wish to become AVTRW members prior to conference registration. Annual membership (extended to 3 years for student members) costs £25.00. See our Membership page for further information (<http://www.avtrw.co.uk/membership/>).

Keynote speakers

Professor David Eckersall

Professor David Eckersall graduated from the University of Liverpool with a BSc in Biochemistry (1973) and a PhD in Biochemistry from University of Edinburgh (1977) whilst working at the Animal Breeding Research Organisation (Roslin Institute). Prof Eckersall is the Professor of Veterinary Biochemistry at the School of Veterinary Medicine, University of Glasgow. His research has been focused on the diagnostic applications of protein analysis in veterinary medicine and in particular on the development and applications of acute phase proteins such as haptoglobin, C-reactive protein and serum amyloid A in diagnosis of disease in animals. He has published over 200 peer reviewed papers, holds 4 patents and co-edited the first and second books on animal proteomics (Methods in Animal Proteomics, Wiley, Proteomics in Domestic Animals: from Farm to Systems Biology, Springer). He was the Chair of the COST Action for Farm Animal Proteomics (2011-14) and ERA Chair at the Proteomics laboratory University of Zagreb, Croatia. He was awarded the Heiner Sommer Prize of the International Society for Animal Clinical Pathology

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for Lifetime Contribution to Animal Clinical Biochemistry in 2008, the Siemens Prize of the Division of Animal Clinical Chemistry of the American Association of Clinical Chemistry for Contributions to Animal Clinical Chemistry in 2010 and the Lifetime Achievement Award of the Comparative Clinical Pathology Association in May 2016. His university spinout company ReactivLab Ltd was acquired by Avacta Group Ltd in 2010. He is a Fellow of the Royal College of Pathologists, a Fellow of the Royal Society of Biology and a Member of the Academia Europaea.

Dr Jennifer Hammond

Jennifer Hammond is a veterinary surgeon with a background in small animal primary care practice and expertise in veterinary education including small group clinical teaching, competency assessment and curriculum design. Her current role is as a Senior Lecturer in Veterinary Education at the University of Glasgow, where she is responsible for the Bachelor of Veterinary Medicine and Surgery (BVMS) Programme. Her research interests include understanding how students learn to cope with uncertainty in veterinary professional practice (the topic of my professional doctorate) and the impact of ambiguity tolerance on learning. She is particularly interested in how students are prepared to learn in the clinical workplace and how we can optimise learning in these rich and complex environments.

Helen Carty

Helen Carty qualified from Edinburgh in 2003 and following four years in mixed practice in Renfrewshire moved to SRUC Veterinary Services, based in Ayr in southwest Scotland in 2007. She holds a As Veterinary Centre Manager her work includes farm animal pathology, disease investigation, reporting on surveillance in addition to Premium Cattle Health Scheme technical support. She completed her Certificate in Advanced Veterinary Practice (Cattle) in 2015.

Dr Matthew Denwood

Matt graduated from Glasgow vet school in 2006 with a keen interest in production animal medicine. Shortly afterwards he decided a brief return to the University environment was essential in order to get to grips with the epidemiology that is fundamental to preventive medicine, but after almost 15 years he is still working on fully understanding what turned out to be a bigger field than he anticipated. His PhD covered epidemiology and data analysis relating to cyathostomins in horses and nematodirus battus in sheep, along with methodological developments relating to the faecal egg count reduction test. His post-doctoral training and experience developed interests in applied statistics and programming, ultimately leading him to a move to the University of Copenhagen in 2014 where he is currently employed as Associate Professor in Quantitative Veterinary Epidemiology and Biostatistics.