



European Wildlife Disease Association

Edinburgh 2014

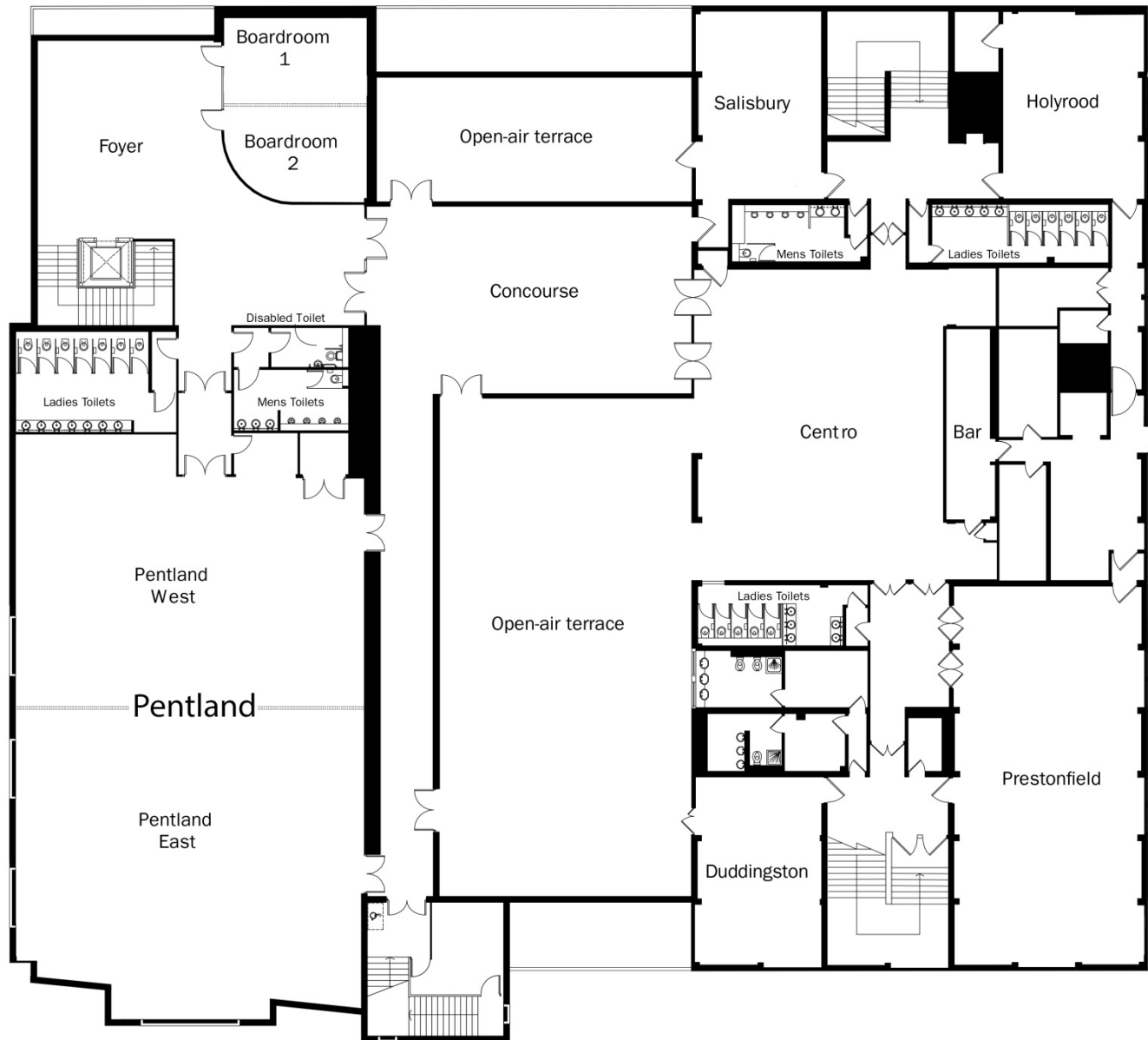
25-29 August 2014

EWDA Conference 2014 - PROGRAMME OVERVIEW

Time	Monday 25th August	Tuesday 26th August	Wednesday 27th August	Thursday 28th August	Friday 29th August
07.30-08.40	Registration (<i>JMCC Foyer</i>)	Registration (<i>JMCC Foyer</i>)			
08.00-09.00			Registration (<i>JMCC Foyer</i>)	Registration (<i>JMCC Foyer</i>)	Registration (<i>JMCC Foyer</i>)
08.45 (or 08.40)-09.00		Conference Welcome and Introduction (<i>Pentland</i>)	-	-	FILM: Battle for Bats (8.40 start)(<i>Pentland</i>)
09.00-10.30	WORKSHOPS Workshop 1. 'Taking wildlife health on the European continent-scale: A step further?' (<i>Pentland East</i>) Workshop 2. Wildlife post-mortem examination and pathology (<i>Easter Bush Campus</i>)	Keynote addresses (<i>Pentland</i>)	Session 5. Student (2) (<i>Pentland</i>)	Session 8. Disease and Conservation (<i>Pentland</i>)	Session 12. Small mammals (2) (<i>Pentland</i>)
10.30-11		Coffee	Coffee	Coffee	Coffee
11.00-12.30		Session 1. Host-Pathogen dynamics (<i>Pentland</i>)	Session 6. One Health (<i>Pentland</i>)	Session 9. Student (3) (<i>Pentland</i>)	Session 13. Open session (2) (<i>Pentland</i>)
12.30-13.30		LUNCH (<i>JMCC Restaurant</i>)	LUNCH (<i>JMCC Restaurant</i>)	LUNCH (<i>JMCC Restaurant</i>) Diclofenac session(optional) (<i>Pentland</i>) EWDA Student chapter meeting (<i>Duddingston</i>)	LUNCH (<i>JMCC Restaurant</i>)
13.30-15.00 (or 14.45)		Session 2. Open session (1) (<i>Pentland</i>)	Session 7. Current outbreaks (<i>Pentland</i>) (finish 14.45)	Session 10. Mycobacteria (<i>Pentland</i>)	Session 14. Open session (3) (<i>Pentland</i>)
15.00-15.30		Coffee + Poster session 1 (<i>Prestonfield</i>)	Edinburgh Zoo Visit	Coffee + Poster session 2 (<i>Prestonfield</i>)	Coffee
15.30-16.00		Session 3. Control (<i>Pentland</i>)		Session 11. Small mammals (1) (<i>Pentland</i>)	Session 15. Screening & Surveillance (<i>Pentland</i>)
16.00-16.30					Closing remarks workshop summary
16.30-17.00					
17:00-18:00		Session 4. Student (1) (<i>Pentland</i>)		EWDA AUCTION (<i>JMCC</i>)	
18.00-19.00	EWDA AGM (<i>Pentland</i>)				
19.00 onwards	ICEBREAKER (<i>Centro 19.00-20.00</i>)	STUDENT MENTOR NIGHT (<i>JMCC Bar</i>)	CONFERENCE DINNER AND CEILIDH (<i>South Hall</i>)		

John McIntyre Conference Centre

Pollock Halls, Edinburgh



EWDA Conference 2014

MONDAY 25TH AUGUST

WORKSHOP PROGRAMMES

WORKSHOP 1. 'TAKING WILDLIFE HEALTH ON THE EUROPEAN CONTINENT-SCALE: A STEP FURTHER'?

VENUE: PENTLAND WEST, JOHN McINTYRE CONFERENCE CENTRE

The purpose of the workshop is to bring together experts from several EU FP7 research programs (including ANTIGONE, APHAEA, EDEN next, EuroWestNile and WildTech) and other recognised scientists, to share ideas. These include recent concepts and knowledge of the difficult art of collecting data from free-living populations. The information is essential in gathering evidence for the management of wildlife related diseases and zoonoses. As well as the veterinary and human health concern, this discipline is increasingly important for the conservation of biodiversity.

The workshop will have invited short presentations. These emphasise new technologies and approaches to surveillance in the field, in the lab, in front of a computer, and in the office of policy makers. A large part of the workshop will be dedicated to **round-table discussions** (RTD) which will address the following challenges.

Title of the RTD	Chair
1. Selecting targets for sampling (for targeted surveillance)	Mariana Boadella
2. Improving the tests (for surveillance)	Lisa Yon
3. Data (for surveillance) in Europe	Marc Artois
4. Surveillance for preparedness of ' <i>emergences</i> '	Thijs Kuiken
5. Where are vectors? Supplementing surveillance with modelling	William Wint
6. Recognition of skills in the wildlife health discipline	Paul Duff
7. Assessing progress and communication with stakeholders	Marie-Pierre Ryser

Programme

09.00-11.30 Introductory session.

No break, but coffee available in the room

09.00-09.15	Welcome address. State of the art, challenges and opportunities	M. Artois
09.15-09.30	1. Updates and new trends in wildlife health investigations	M.-P. Ryser
09.35-09.50	2. Merging population monitoring with disease surveillance	M. Boadella
09.55-10.10	3. Field sampling and co-variables	Christian Gortazar
10.15-10.30	4. Surveillance of drivers of emerging infectious diseases?	T. Kuiken

10.35-10.50	5. Surveillance and modelling of vectors, hosts and diseases	W. Wint
10.55-11.10	6. Multiplex or mass sequencing, what is best?	L. Yon
11.15-11.30	7. Wildlife health surveillance: is it an issue?	P. Duff
11.30-13.30	LUNCH AND POSTER DISPLAY	
13.30-13.45	Distribution in groups for round table discussion	
14.00-16.00	Round table discussions , writing a recommendation (one/group)	
16.00-17.00	COFFEE AND POSTER DISPLAY (rapporteurs to prepare recommendations)	
17.00-18.00	Short presentations of recommendations and conclusions by rapporteurs.	
	Concluding remarks	

WORKSHOP 2. WILDLIFE POST-MORTEM EXAMINATION AND PATHOLOGY

VENUE: ROYAL (DICK) SCHOOL OF VETERINARY STUDIES, EASTER BUSH CAMPUS

Morning and afternoon workshop sessions will be held in the veterinary necropsy room at the University of Edinburgh Easter Bush Campus. The postmortem sessions will be hosted by Dr Adrian Philbey and Dr Jo Baily, at the Royal (Dick) School of Veterinary Studies, and Dr Andrew Brownlow, from SRUC, Inverness.

Programme

09.00	Bus departs Pollock Halls for Easter Bush Campus
09.30-10.00	Welcome Health and Safety Introduction to Marine Mammal Pathology COFFEE
10.00-12.00	Workshop session 1: Demonstration of cetacean pathology
12.00-13.00	LUNCH
13.00-15.00	Workshop session 2: Otter pathology hands on workshop
15.00-15.15	COFFEE
15.15-16.30	Workshop session 3: Demonstration of pinniped pathology
16.30	Bus departs Easter Bush campus and returns to Pollock Halls at 17.00

KEYNOTE SPEAKER BIOGRAPHIES



Professor Richard A. Kock (MA, Vet MB Vet MD MRCVS)

Professor of Wildlife, Health and Emerging Diseases, Royal Veterinary College, London

Richard Kock is a dedicated wildlife veterinary ecologist, researcher and conservationist.

From 1983-2010 he was attached to the Zoological Society of London. Working in zoological medicine from 1983-1990, he was seconded to the Kenya Wildlife Service in Nairobi to start a new Veterinary Unit 1991-1998. This initiative is now a model in the region with a department at KWS with 72 permanent staff. Throughout this time he provided support to conservation initiatives in the region and in building networks and veterinary capacity.

From 1999-2005 he was seconded to a regional body, African Union Inter African Bureau for Animal Resources to work on rinderpest and other transboundary animal diseases in wildlife and livestock including zoonotics. This involved the development of ecological perspectives at the livestock wildlife interface and organisation and implementation of research, sero-surveillance and disease investigation in wildlife species throughout eastern, central and western Africa. In 2001 he identified and ensured diagnosis of the last outbreak (affecting buffalo) which led to control of the last globally known focus of rinderpest virus and its eradication. He also worked and published on the unusual distemper epidemics affecting lion in the Serengeti Mara ecosystems over a decade. He was awarded an FAO international medal in recognition of his work on rinderpest.

In 2006-2010 he returned to the UK to work on regional conservation projects in deserts and rangelands with a wildlife health and ecology perspective including work in Nepal, India, East Africa and Central Asia. In January 2011 he left ZSL to take up a chair in Wildlife Health and Emerging Diseases at the Royal Veterinary College London. He is working on saiga antelope disease in Kazakhstan, wildlife disease and ecohealth initiatives in Africa, and on drivers of emerging diseases and the role of agroecology. He is engaged on capacity building initiatives with a focus on One Health and Ecohealth at the College and Internationally. He served as a committee member of the IUCN SSC committee 2004-2008 and is co-chair of the IUCN SSC Wildlife Health Specialist Group 2004-2012.



Professor Des Thompson (DSc FCIEEM)

Principal Adviser, Ecosystems and Biodiversity, Scottish Natural Heritage

Des manages research, policy and advisory work on biodiversity and climate change, and has led some of Britain's upland nature conservation work for the government and its agencies. Recently elected as Chair of the UN Convention on Migratory Species Technical Advisory Group advising on raptor conservation across Africa and Eurasia, he is also Chairman-elect of the Field Studies Council, and Fellow of the Chartered Institute of Ecology and Environmental Management.

He took his PhD (and later DSc) at the University of Nottingham, publishing his thesis as the textbook *Gulls and plovers - the ecology and behaviour of mixed species feeding groups*. With specialist interests in upland and bird ecology and conservation, Des has published more than 200 papers, articles and books including:

- Ecological Change in the Uplands; Scotland – land of mountains
- Heaths and Moorland – cultural landscapes; Tundra Plovers
- Shorebirds; Birds of Prey in a Changing Environment
- An Illustrated Guide to British Upland Vegetation
- Raptors: a field guide for surveys and monitoring
- Scotland’s Birds of Prey, Alpine Biodiversity in Europe
- The Changing Nature of Scotland

He was editor-in-chief of the Scottish Government’s *Scottish Biodiversity Strategy: 2020 Challenge*, and devised the PhD studentship scheme funded by Scottish Natural Heritage and the Scottish Environment Protection Agency. An Associate Editor of *Journal of Applied Ecology*, he featured in the BBCs HARDtalk discussing climate change impacts on nature.

EWDA Conference 2014

SCIENTIFIC PROGRAMME 26th – 29th AUGUST

PENTLAND SUITE, JOHN McINTYRE CONFERENCE CENTRE

TUESDAY 26th AUGUST

REGISTRATION

07.30-08.40 **JMCC FOYER**

INTRODUCTION AND KEYNOTE ADDRESSES. Chair: Anna Meredith

08.45-09.00	Introduction and Welcome	Professor Anna Meredith Professor Christian Gortázar Schmidt
09.00-09.45	Keynote Address: Scotland – how can we do more for nature?	Professor Des Thompson
09.45-10.30	Keynote Address: As wildlife veterinarians and biologists, can we ignore the big picture?	Professor Richard Kock

10.30-11.00 **COFFEE**

SESSION 1: HOST-PATHOGEN DYNAMICS. Chair: Ross Davidson

11.00-11.30	The ecology of wildlife disease surveillance (178)	G. Marion
11.30-11.45	A modelling assessment of control strategies to reduce squirrelpox spread in Scotland (179)	A. White
11.45-12.00	European red squirrel population dynamics driven by squirrel pox at a grey squirrel invasion boundary (95)	T. Dale
12.00-12.15	Modelling the transmission and management of pestivirus at the interface between sheep and chamois (81)	E. Gilot-Fromont

12.15-12.30 Bayesian modelling of factors potentially influencing the spatial distribution of *Echinococcus multilocularis* in foxes (138) C. Staubach

12.30-13.30 LUNCH (JMCC Restaurant)

SESSION 2: OPEN SESSION (1). Chair: Lesley Smith

13.30-13.45 Interactions between body condition, immunity and parasitism in mountain ungulates (79) E. Gilot-Fromont

13.45-14.00 Clinico-pathology of frog virus 3 (Ranavirus sp, Iridoviridae) infection in wood frogs, *Rana sylvatica* (*Lithobates sylvaticus*) (119) M.J. Forzán

14.00-14.15 Estimating wild boar presence, population size and population trends (155) G. Massei

14.15-14.30 Pneumonia epizootics in Norwegian muskoxen caused by *Mycoplasma ovipneumoniae* (98) K. Handeland

14.30-14.45 Tuberculosis due to *Mycobacterium caprae* in wildlife in western Austria: an overview (157) W. Glawischnig

14.45-15.00 Health monitoring: Free-ranging wolves (*Canis lupus*) in Germany (57) C. Szentiks

15.00-16.00 COFFEE AND POSTER SESSION 1 (Prestonfield)

SESSION 3. CONTROL. Chair: Piran White

16.00-16.15 The perturbation effect in wildlife diseases (177) J. Prentice

16.15-16.30 Experimental management of pneumonia in Bighorn sheep (45) E.F. Cassirer

16.30-16.45 Harmonization of population data in a framework of wild ungulate disease surveillance and control (58) C.V. Citterio

16.45-17.00 Monitoring classical swine fever in vaccinated populations without marker: a moving target (133) S. Rossi

SESSION 4. STUDENT SESSION (1). Chair: Becki Lawson

17.00-17.15 Monitoring West Nile Virus spread and predicting future outbreaks using GIS and wild bird surveillance in Greece (146) G. Valiakos (S)

17.15-17.30 Molecular typing of *Echinococcus multilocularis* isolates from Germany (15) M. Herzig (S)

17.30-17.45 *Leishmania infantum* in European brown hares and dogs, Greece, 2007-2013: Results of an ongoing study (142) C.N. Tsokana (S)

17.45-18.00	The prevalence of avian malaria lineages in a mixed ecosystem in New Zealand using molecular techniques (67)	D. Sijbranda (S)
18.00-19.00	EWDA AGM	
19.00-20.00	ICEBREAKER (<i>Centro Bar</i>)	

WEDNESDAY 27th AUGUST

REGISTRATION

08.00-09.00 **JMCC FOYER**

SESSION 5. STUDENT SESSION (2). Chair: Vic Simpson

09.00-09.15	Pulmonary protostrongyliasis of hares in France: causal agents and intermediate hosts (75)	C. Lesage (S)
09.15-09.30	<i>Echinococcus multilocularis</i> in Sweden: first identification in an intermediate host (99)	A.L. Miller (S)
09.30-09.45	Henipaviruses spillover between sympatric fruit bats in Ghana (86)	S. Riesle (S)
09.45-10.00	Investigation of long-term cross-protective effect of H13 and H16 influenza A virus infection in black-headed gulls (115)	J.H. Verhagen (S)
10.00-10.15	Infectious keratoconjunctivitis in reindeer and the role of Cervid Herpesvirus 2 (135)	J. Sánchez-Romano (S)
10.15-10.30	Testing a potential in-situ treatment for chytridiomycosis using the mountain chicken frog, (<i>Leptodactylus fallax</i>), as a model (92)	M. Hudson (S)
10.30-11.00	COFFEE	

SESSION 6. ONE HEALTH. Chair: Thijs Kuiken

11.00-11.15	Assessing the public health importance of passerine salmonellosis (53)	B. Lawson
11.15-11.30	Estimating the contribution of human-to-human transmission to Lassa fever (55)	G. Lo Iacono
11.30-11.45	Lead ammunition: a toxic One Health issue where the simple solution is very complex (61)	R. Cromie
11.45-12.00	The status of tularemia in Europe in a One Health context: a review (139)	D. Gavier-Widen

12.00-12.15 Risk prioritization tool to identify the public health risks of wildlife trade: the case of rodents from Latin America (56) I. Bueno-Padilla (S)

12.15-12.30 Are threats to wild species associated with virus sharing with humans? (78) L. Brierley (S)

12.30-13.30 LUNCH (JMCC Restaurant)

SESSION 7. CURRENT OUTBREAKS. Chair: Charalambos Billinis

13.30-13.45 Unexpected outbreak of brucellosis due to *Brucella melitensis* in the Alpine ibex in the French Alps (34) J. Hars

13.45-14.00 Bluetongue in red deer: an emerging wild reservoir? (136) S. Rossi

14.00-14.15 Use of GIS in spatial epidemiology of rabies in Greece (147) A. Giannakopoulos

14.15-14.30 Wild birds surveillance for West Nile virus during a disease outbreak in Greece, 2009-2014 (145) G. Valiakos (S)

14.30-14.45 MERS: emergence of a novel coronavirus from dromedary camels (184) B. Haagmans

15.00-18.00 EDINBURGH ZOO VISIT
Buses will depart from JMCC at 15.00 and depart from Zoo at 18.00. Prior registration essential. Name badges and tickets must be presented

19.00- late Student Mentor night, JMCC Bar

THURSDAY 28th AUGUST

REGISTRATION

08.00-09.00 JMCC FOYER

SESSION 8. DISEASE AND CONSERVATION. Chair: Lisa Yon

09.00-09.15 Progress towards the development of a chlamydial vaccine for koalas (14) P. Timms

09.15-09.30 Infections and conflicts: the malady of Berlin beavers (50) G. Wibbelt

09.30-09.45 The Great Crane Project: Health aspects of Eurasian crane (*Grus grus*) reintroduction in the UK (66) K. Beckmann

09.45-10.00 Wildlife immunology: from methodological challenges to conservation programmes (73) G.A. Czirják

10.00-10.15	Regional mortality surveillance of red squirrels (<i>Sciurus vulgaris</i>) to identify significant health risks to the declining UK population (97)	T. Dale
10.15-10.30	A novel cause of lethal chytridiomycosis in amphibians (173)	A. Martel

10.30-11.00 COFFEE

SESSION 9. STUDENT SESSION (3). Chair: Becki Lawson

11.00-11.15	The dynamics of <i>Borrelia burgdorferi s.l.</i> infection in grey squirrels in Scotland (161)	S. Millins (S)
11.15-11.30	Integrating behaviour with epidemiology: could the socio-spatial structuring of immature and breeding common guillemots influence the transmission of a tick-borne virus? (137)	K.M. Wanelik (S)
11.30-11.45	Male roe deer trade their immune system for sexual ornamentation in the wild (84)	M. Jégo (S)
11.45-12.00	Hepatic lesions in harbor porpoises stranded along the Dutch coast (22)	L. Wiersma (S)
12.00-12.15	Physiological consequences of disturbance and capture of free-ranging brown bears (<i>Ursus arctos</i>) during hibernation (143)	A.L. Evans (S)
12.15-12.30	Diseases in invasive species: investigations in urban raccoons in Berlin, Germany (29)	Z. Rentería-Solís (S)
12.30-13.30	LUNCH (JMCC Restaurant) Diclofenac session (optional) (Pentland) EWDA Student Chapter meeting (Duddingston)	

SESSION 10. MYCOBACTERIA. Chair: Dez Delahay

13.30-13.45	Respiratory disease surveillance in small mustelids in South West England (35)	V. Simpson
13.45-14.00	Dilution and identity effects of wildlife on the regional occurrence, persistence and recurrence of bovine tuberculosis (37)	F. De Boer
14.00-14.15	Wild boar (<i>Sus scrofa</i>) and MTB complex, something new: spatiotemporal and biological patterns of <i>M. microti</i> infection in wild boar (105)	M. Chiari
14.15-14.30	Is targeted culling a suitable means for TB control in wild boar? (170)	C. Gortazar
14.30-14.45	Do rabbits undermine paratuberculosis control in cattle? (171)	N. Fox

14.45-15.00 Mycobacterial dermatitis of red squirrels in Scotland: a case study (180) A. Meredith

15.00-16.00 COFFEE AND POSTER SESSION 2 (Prestonfield)

SESSION 11. SMALL MAMMALS (1). Chair: Thijs Kuiken

16.00-16.15 Understanding the infection dynamics of potentially zoonotic viruses in African bats (41) A. Cunningham

16.15-16.30 Experimental inoculation of Dengue virus in *Artibeus jamaicensis* bats (123) S. Cabrera-Romo (S)

16.30-16.45 Co-infection and immunity in the wild: Insights from a wild wood mouse system (102) M. Clerc (S)

16.45-17.00 Interactions between tick-borne pathogens and hantavirus in their rodent reservoir (69) C. Cayol (S)

17.00-20.00 EWDA AUCTION
Silent Auction 17.00-18.30 (Centro, Holyrood, Salisbury)
Live Auction 18.30-20.00 (Pentland)
Cash only payments (Sterling/ Euro)

FRIDAY 29th AUGUST

REGISTRATION

08.00-09.00 JMCC FOYER

SESSION 12. SMALL MAMMALS (2). Chair: Andrew Cunningham

08.40-09.00 FILM: "Battle for Bats" S. Leopardi

09.00-09.15 Molecular evolutionary signatures reveal male-biased dispersal of vampire bat rabies (71) D. Streicker

09.15-09.30 Squirrelpox virus and adenovirus infection dynamics in a wild, solely grey squirrel population (52) J. Chantrey

09.30-09.45 Do patterns of nestedness in parasite communities of wild wood mice predict order of infection in individual hosts? (107) E. Rynkiewicz

09.45-10.00 Context dependent treatment success in a natural mouse population (148) A. Pedersen

10.00-10.15 Perturbation of host community composition reveals different host contributions to transmission among a suite of multi-host pathogens (129) G. Devevey

10.15-10.30 A review and comparison of wild rabbit parasites and diseases (80) B. Boag

10.30-11.00 COFFEE

SESSION 13. OPEN SESSION (2). Chair: Liz Mullineaux

11.00-11.15 Natural occurrence of compensational amino acid substitutions in the attachment protein of canine distemper virus in wild carnivores (90) F.C. Origi

11.15-11.30 Recent emergence of pox disease due to Canarypox virus and Fowlpox virus in Houbara bustards conservation breeding projects (91) G. Le Loc'h

11.30-11.45 The distribution and extent of heavy metal accumulation and blood parasites in song sparrows of Arizona's upper Santa Cruz river watershed C. van Riper

11.45-12.00 Health screening and results for water voles (*Arvicola amphibius*) released in England since 2012 (23) S.J. Girling

12.00-12.15 Association between *Treponema sp.* and severe hoof disease in elk from Washington State, USA (128) K.G. Mansfield

12.15-12.30 Phylogenetic analysis of European brown hare syndrome virus across Europe from 1982 to 2014 (151) C. Billinis

12.30-13.30 LUNCH (JMCC Restaurant)

SESSION 14. OPEN SESSION (3). Chair: Peter Lurz

13.30-13.45 A new view on multi-host tuberculosis in mainland Portugal (176) M.V. Cunha

13.45-14.00 'Bulgy eyed disease' (respiratory cryptosporidiosis) – an emerging disease in an economically important wild bird species (104) J.P. Duff

14.00-14.15 Serological surveillance survey for major viral pathogens in wild ungulates in Norway (130) C.G. Das Neves

14.15-14.30 Citizen science: using a hunter network to collect samples for a national *Echinococcus multilocularis* screening (106) E. Ågren

14.30-14.45 Validation of harmonized methods on selected wildlife host-pathogen combinations (49) J. Sonnenburg

14.45-15.00 Diagnosis of bycatch in non-frozen and frozen birds (150) L. Begeman

15.00-15.30 COFFEE

SESSION 15. SCREENING AND SURVEILLANCE. Chair: Paul Duff

15.30-15.45

15.45-16.00	Increase of <i>Echinococcus multilocularis</i> in red foxes (<i>Vulpes vulpes</i>) in South Limburg, The Netherlands (51)	M. Maas
16.00-16.15	Improved health surveillance of Norwegian cervids by use of “The Cervid Register” (94)	K. Madslie
16.15-16.30	Serosurveillance for Schmallenberg virus (SBV) in wild boar (<i>Sus scrofa</i>) in Northern Italy (110)	M. Chiari
16.30-17.00	EU Workshop Summary and closing comments	M. Artois/A. Meredith
19.00-23.45	EWDA CONFERENCE DINNER AND CEILDH South Hall. Pollock Halls Prior booking essential Drinks reception 19.00-19.30 Dinner and Ceilidh 19.30-23.45	

(S)= Student

(999) = Abstract submission ID

EWDA Conference 2014

POSTER PROGRAMME

POSTER SESSION 1. FROM 15.00 TUESDAY 26TH AUGUST

POSTER BOARD NUMBER	POSTER TITLE	PRESENTING AUTHOR
1	First phylogenetic analysis of pseudorabies virus in domestic pigs and wild boars in Croatia (11)	Keros
2	Phylogenetic and epidemiologic relationships among <i>Brucella suis</i> biovar 2 strains in Hungary and relatedness to European strains based on MLVA-16 (16)	Kreizinger (S)
3	<i>Mycoplasma</i> spp. prevalence and diversity in birds of prey and co-infection with <i>Ornithobacterium rhinotracheale</i> (17)	Lecis
4	Main diseases in diurnal birds of prey from three care centers for wildlife in Wallonia – Belgium (19)	Wauty

5	The potential wild bird disease surveillance capacity of wildlife rescue centres in France (24)	Gourlay (S)
6	The association of landscape with the prevalence of livestock pathogens in raccoons in Tokachi district, Eastern Hokkaido, Japan (36)	Yamaguchi (S)
7	Risk of contamination by urban birds discharge (Columbidae), between the city and the landfill, is it a health problem? (42)	Soualah-Alila (S)
8	An examination of current attitudes towards wildlife and disease transmission within the Scottish farming community (46)	Fraser
9	Virus discovery in wild carnivores in the Serengeti ecosystem using next-generation sequencing (48)	Olarte-Castillo (S)
10	Analysis of mortality in the roe deer (<i>Capreolus capreolus</i>) and in structures of wild animals recovery in Northern Italy (54)	Bianchi
11	Surveillance and research on sarcoptic mange of chamois in North-eastern Italian Alps (59)	Turchetto
12	Evolution of natural resistance to cancer: Peto's paradox revisited (62)	Labrut
13	Lungworm infection (metastrongyloidea) in an Antarctic fur seal (<i>Arctocephalus gazella</i>) (64)	Catao-Dias
14	Mass mortality due to an avian cholera outbreak (<i>Pasteurella multocida</i>) in a Chinstrap penguin colony in South Georgia (68)	Goodman
15	High amounts of systemic amyloidosis in European brown hares (<i>Lepus europaeus</i>) (70)	Posautz (S)
16	Detection and characterization of small ruminant lentivirus in mouflon (<i>Ovis aries musimon</i>) (74)	Kübber-heiss
17	<i>Brucella suis</i> in wild boar (<i>Sus scrofa</i>) in the Netherlands (82)	Van Tulden
18	Molecular approaches & long-term datasets; uncovering the drivers of disease in wildlife populations (85)	Benton (S)
19	Establishment of plasmatic proteins electrophoresis reference values of healthy <i>Chlamydotis undulata</i> as a tool for epidemiological surveillance of avian tuberculosis (88)	Daudet-Le Loc'h
20	Disease in deer – testing for pathogens in wild muntjac deer populations (93)	Hogg (S)
21	Radio-collar-induced tracheal stenosis in roe deer fawns - consequences of material failure (108)	Pewsner (S)
22	Serosurvey of Aujeszky's disease virus in the Swiss wild boar population (109)	Meier (S)

23	Caudal skull structures in lions (<i>Panthera leo</i>): diagnostic imaging of normal anatomy and pathology (111)	Szentiks
24	Endoparasites of the wolf (<i>Canis lupus</i>) in central Greece (113)	Diakou
25	<i>Cryptosporidium</i> spp. Infection in animals of a Greek zoo (116)	Tahas (S)
26	Q fever seroprevalence in wildlife in the Czech Republic (2008-2013) (117)	Charvátová (S)
27	Endoparasites of mammals from wildlife hospitals in Greece: first results (121)	Liatis(S)
28	Spatial and temporal patterns of mortality in the Swiss beaver population (124)	Mavrot (S)
29	Urogenital cancer in California sea lions (<i>Zalophus californianus</i>) – a case-control study (126)	Browning (S)
30	<i>Leishmania infantum</i> infection in European brown hare and cotton-tail rabbit from north Italy (132)	Ferroglio
31	Evidence of land-sea transfer of a zoonotic human pathogen, <i>Campylobacter</i> spp., to a wildlife marine sentinel species, the grey seal (<i>Halichoerus grypus</i>) (141)	Baily (S)
32	Spatial distribution of EBHS virus in Mediterranean ecosystems and implications for hare management (152)	Sokos (S)
33	Does <i>Batrachochytrium dendrobatidis</i> have the potential to cause extensive amphibian mortalities worldwide? (154)	McMillan (S)
34	Surveillance for influenza viruses in waterfowl used as decoys in Andalusia, Spain (158)	García-Bocanegra
35	Serosurveillance of flaviruses in wild ruminants in southern Spain (159)	García-Bocanegra
36	Endoparasites of pipistrelle bats in the United Kingdom (175)	Gattan (S)

POSTER SESSION 2. FROM 15.00 THURSDAY 28TH AUGUST

1	European brown hare syndrome (EBHS) in Croatia (12)	Deždek
2	Main diseases in nocturnal birds of prey from three care centers for wildlife in Wallonia-Belgium (20)	Wauty
3	<i>Borrelia</i> in immature <i>Ixodes ricinus</i> feeding on lizards in Algeria (43)	Soualah-Alila
5	Astroviruses in wild boars: the prevalence and phylogeny of strains detected in Croatia (47)	Brnić
6	Wild raptors infected with highly pathogenic avian influenza virus H5N1 during the 2006 outbreak in Germany (60)	van den Brand

7	<i>Klebsiella</i> spp. is part of the natural intestinal microbiota and a potential disease pathogen in wild Golden-headed lion tamarins (<i>L. Chrysomelas</i>) (63)	Carvalho
8	Molecular identification of <i>Pseudoterranova decipiens</i> larvae in cod (<i>Gadus</i> sp.) Sold for human consumption in Brazil (65)	Catao-Dias
9	Complete genome sequence of the ranavirus causing mass-mortalities in wild amphibians in the Netherlands (72)	van Beurden
11	Primary and secondary experimental infestation of rabbits (<i>Oryctolagus cuniculus</i>) with <i>Sarcoptes scabiei</i> from a wild rabbit: factors determining resistance to reinfestation (77)	Casais
12	<i>Brucella pinnipedialis</i> in Harbor seals (<i>Phoca vitulina</i>) in the Netherlands (83)	van Tulden
13	Lead poisoning – a continuous threat to white-tailed eagles in Finland (87)	Isomursu
14	Digestive foreign bodies management in a Houbara bustards conservation breeding project (89)	Daudet-Le Loc'h
15	Sarcocystis in wild ruminant of central Italian Alps a four years survey (96)	Bianchi
16	Diagnostic tools for paratuberculosis in free ranging wild ruminants in endemic and sporadic areas (101)	Garbarino
17	Listerial keratoconjunctivitis and uveitis in roe deer (<i>Capreolus capreolus</i>) in Sweden (103)	Brojer
18	Evaluation of two enzyme-linked immunosorbent assays for detection of avian and bovine tuberculosis in Eurasian badger (<i>Meles meles</i>) (112)	Prieto
19	Epidemiosurveillance of tularemia in French wildlife: 2003-2013 results (114)	Moinet
20	High-resolution computed tomographic assessment of vertebral morphology in German wolves (<i>Canis lupus</i>) (118)	Szentiks
21	Severe gastric parasitosis in a mara (<i>Dolichotis patagonum</i>) kept in a zoo (120)	Diakou
22	Monitoring of <i>Francisella tularensis</i> and <i>Yersinia pseudotuberculosis</i> in Danish hares (<i>Lepus europaeus</i>) by fluorescent in-situ hybridization (122)	Hansen
23	Physiological evaluation of the effect of the capture event on free-ranging moose (<i>Alces alces</i>) (127)	Lian
24	Prognostic value of complete blood count parameters applied to roe deer (<i>Capreolus capreolus</i>) recovery: preliminary results (131)	Giacomelli
25	<i>Toxoplasma gondii</i> in Piedmont: epidemiology in wildlife (134)	Ferroglgio

26	Interactions between badgers (<i>Meles meles</i>), wild boars (<i>Sus scrofa</i>) and cattle on pastures in a French btb infected area : which opportunity for the transmission of <i>Mycobacterium bovis</i> ? (140)	Payne
27	First evidence of an outbreak of edema disease in wild boars (<i>Sus scrofa</i>) in France (144)	Lemberger
28	ECDC-EFSA collaboration at the animal-human interface on zoonotic and potential zoonotic diseases (149)	Warns-Petit
29	Epidemiologic information from rehabilitation centres revisited: a case study in the white stork (153)	Höfle
30	Genetic diversity of <i>Salmonella typhimurium</i> isolated from two seagull species (<i>Larus michahellis</i> and <i>Larus audouinii</i>) in the western Mediterranean and eastern Atlantic ocean (156)	Cerdà-Cuèllar
31	Sarcoptic mange in wild boar (<i>Sus scrofa</i>) in Sweden (172)	Rangstrup-Christensen
32	Oral necrobacillosis outbreak in semi-domesticated reindeer calves (<i>Rangifer tarandus</i>) in Sweden (174)	Agren
33	Information communications technology and citizen-science; wildlife disease surveillance in the cloud (181)	Hopkins
34	<i>Campylobacter</i> infection in wild artiodactyl species from southern Spain: occurrence, genetic diversity, antimicrobial susceptibility (160)	García-Bocanegra
35	Pestivirus in wild ruminants and livestock from Andalusia, Spain (162)	García-Bocanegra
36	<i>Taenia serialis</i> infection in wild geladas (<i>Theropithecus gelada</i>) at the Menz-Guassa Community Conservation Area in the afro-alpine highlands of Ethiopia (182)	Knauf

(S)= Student

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