

# ABSTRACTS



## **2<sup>nd</sup>** CONGRESS OF THE EUROPEAN ASSOCIATION OF VETERINARY LABORATORY DIAGNOSTICIANS (EAVLD)

# EAVLD 2012

1-4 July, 2012  
Kazimierz Dolny, Poland

organized by the



National Veterinary Research Institute, Pulawy



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# Welcome

Dear colleagues,

Welcome to the 2nd EAVLD congress in Kazimierz Dolny, hosted by the National Veterinary Research Institute, Puławy. I am very honoured and proud that our Institute had an opportunity to organize the event. Nowadays, a constant demand for a higher quality of diagnostic services, also a competition on the market and funding shortages make diagnostic services a hard work. Therefore, the possibility of meeting other specialists in the field of veterinary laboratory diagnostics and exchanging of eye-to-eye experience are of prime importance, which was also marked by the success of the 1<sup>st</sup> EAVLD congress. The sponsors' response to this congress was beyond our expectations and we are pleased that participants will have the possibility to get acquainted with the variety of the latest diagnostic developments during the congress. Despite the economical situation encountered, by the end of May, 2012 we had over 170 registered participants from 26 countries including: Africa, Australia, Europe, North and South America.

Walking in the footsteps of the first EAVLD congress held in 2010 in Lelystad by the CVI, made our preparations easier since we had a tremendous and invaluable back-up and advice from Dr. Willie Loeffen, Secretary of the EAVLD and the President of the Organizing Committee of the EAVLD 2010. At the same time, we are aware of the responsibility and high expectations from the participants due to the positive feedback from 1<sup>st</sup> such an event organized in 2010. Despite recent renovations of our Institute and its training centre both based in Puławy, we had to find another location due to the space limits. We have chosen Kazimierz Dolny, a town situated nearby Puławy, located at the bank of Vistula river. We hope you will admire town's beauty and its flavour when visiting different attractions during the congress free time.

Myself and the whole Organizing Committee of EAVLD2012 hope that you will find this congress interesting and valuable source of the up-to-date knowledge within the field of veterinary laboratory diagnostics.

We wish you all the best and enjoy your stay in Kazimierz Dolny and in Puławy, both scientifically and socially.

Mirosław P. Polak  
The Organizing Committee  
of the 2<sup>nd</sup> EAVLD Congress

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Welcome to the second EAVLD congress and to the beautiful town of Kazimierz Dolny. I hope that you have time to explore the area and are looking forward to the Polish hospitality!

The congress is being held at a time of great economic uncertainty for many countries and individuals. As veterinary diagnosticians we have a duty to continue to make new scientific advances while also working more efficiently to help reduced costs to governments and animal owners. We will not be able to do this unless we share ideas and learn from each other. I want to thank you for coming and supporting this congress and also to all our sponsors for helping to make the congress possible. Please make the most of the commercial exhibition – which must be the most concentrated gatherings of companies involved in veterinary diagnostics in Europe since our last congress in 2010!

Please get involved and come to the General meeting on Tuesday at 16.30. If you have ideas for how the association may be able to better serve its members please speak up at the General Meeting or discuss with an EAVLD board member.

I wish to especially thank Mirosław Paweł Polak and the team at National Veterinary Research Institute for all their hard work in organising this congress.

At this meeting I will hand on the presidency of the association to Willie Loeffen who was elected as vice president at the last congress in 2010. I want to thank Willie for all the work he has done as secretary over the last few years and to wish him all the best for his term of office. He will have my full support and I know that he will do an excellent job as your new EAVLD President.

Andrew Soldan  
EAVLD President

# KEYNOTE SPEAKERS

## General Session

### Prof. Dr. Wim H.M. van der Poel

Prof. Dr. Wim H.M. van der Poel, DVM is senior scientist at the Central Veterinary Institute of Wageningen University and Research Centre, The Netherlands. His research activities have focussed on veterinary virology, emerging and zoonotic viruses and food borne viruses. He is also coordinator of the EPIZONE European Research Group, the network on epizootic animal diseases research. Previously, from 1996 to 2004, prof Van der Poel has been working on research of viral zoonoses and food borne viruses at the National Institute for Public Health and the Environment in Bilthoven, The Netherlands. At this institute, from 2000-2004, he was also heading the National Reference Laboratory for Microbiological Contamination of Bivalve Molluscs. Prof. Van der Poel is a member of a number of scientific committees, boards and professional bodies in the field of veterinary virology, and he has been involved in many national and international research projects on viruses in animals and foodstuffs. Throughout his career he has published a large number scientific papers and reviews in this area and he has often served as an ad hoc reviewer for scientific journals and granting agencies. In February 2009 he has accepted an honorary visiting chair on Emerging and Zoonotic Viruses at the University of Liverpool, United Kingdom.

Prof. van der Poel graduated in Veterinary Medicine in 1988 and completed his PhD in veterinary virology at the Utrecht University in 1995. He is a registered specialist in veterinary microbiology within the Netherlands Royal Veterinary Association and a registered research worker in medical microbiology within the Netherlands Royal Microbiology Association.

### Prof. Dr. med. vet. Stefan Schwarz

works in the Institute of Farm Animal Genetics of the Friedrich-Loeffler-Institut (= Federal Research Institute for Animal Health) in Neustadt-Mariensee, Germany. He heads the research group 'Molecular Microbiology and Antimicrobial Resistance' and is involved in both surveillance of antimicrobial resistance and analysis of the molecular genetics of antimicrobial resistance. He also teaches various academic courses at the University of Veterinary Medicine Hannover. Prof. Schwarz is a specialist veterinarian in (a) microbiology, (b) epidemiology, and (c) molecular genetics and gene technology. He acts as editor/ editorial board member of six international journals.

## Diagnostics at the point of interest

### Andrew Soldan

qualified as a veterinary surgeon in 1984 from the Royal Veterinary College, University of London and then worked in general mixed practice in Yorkshire, UK for 2 years. Following the completion of an MSc in Tropical Veterinary Medicine at the University of Edinburgh he working in Malawi for 5 years and helped set up an epidemiology unit. During this time he specialised in laboratory diagnosis of disease and control methods for tick borne disease in local cattle. For the latter work he was awarded a Doctorate of Veterinary Medicine by the University of Edinburgh. On return from Africa he worked as a government veterinary investigation officer before another 3 year spell in mixed practice. In 1999 he started work for the Veterinary Laboratories Agency and was heavily involved in the laboratory response to the CSF outbreak in 2000 and the FMD outbreak in 2001. He was head of testing for the VLA for 5 years, was Veterinary Director for 1 year and is currently Commercial Director and Head of AHVLA Scientific for the Animal Health and Veterinary Laboratories Agency following its formation in early 2011. Andrew has been involved in the development of new tests and bringing them into routine use in an ISO17025 accredited laboratory. He has also

worked with many diagnostic companies to ensure that new tests developed at the VLA have been available to international laboratories and end users. He has taken a special interest in tests that can be used outside a specialist laboratory - possibly informed by his time working in Africa. Andrew was a founding member of EAVLA and its first president.

## **Emerging, re-emerging and wildlife diseases - diagnostic possibilities**

### **Dolores Gavier-Widén**

is a veterinary pathologist, Head of the Research and Development Division, Department of Pathology and Wildlife Diseases, National Veterinary Institute (SVA) and Associated professor at the Swedish University of Agricultural Sciences, Uppsala, Sweden. She obtained her veterinary degree at Buenos Aires University, Argentina, and her MS and PhD degrees at the University of California, Davis. She has worked on diagnosis in combination with applied research, in particular on infectious diseases of wild animals, for more than 25 years, most of the time in Sweden and including 40 months of work at the Veterinary Laboratory Agency, Weybridge, England. She is the president of the Wildlife Disease Association (WDA) ([www.wildlifedisease.org](http://www.wildlifedisease.org)) and past president of its Section, the European WDA. She has participated of several EU FP6, FP7 and LIFE projects, such as the current WildTech project, and also of several working groups of the European Food Safety Authority (EFSA) and of the OIE ad hoc Group on the validation on diagnostic tests for wildlife, in 2011. She has contributed to the organization of several WDA, EWDA and other conferences, such as Cutting Edge Pathology (European Society of Veterinary Pathology), in 2011. Dolores believes that surveillance of infectious diseases of wildlife is essential to improve and maintain the health of humans, domestic and wild animals.

## **New techniques in bacteriology, parasitology and pathology**

### **Dr. Markus Kostrzewa**

In 1990 Dr. Kostrzewa obtained the Diploma in Biology, University Gießen, Germany, then in 1993 he obtained the title of Dr. rer. nat, University Gießen, Germany. He joined Bruker in 1998, where he started as project manager for DNA analysis by MALDI-TOF mass spectrometry. Later he became the Head of development of Clinical Proteomics ("ClinProt" system, a first mass spectrometry protein profiling system).

Since 1999 he works in the field of MALDI-TOF MS in microbiology. Dr. Kostrzewa initiated and directed the development of microorganism identification by MALDI-TOF mass spectrometry ("MALDI Biotyper" system). He is heading development of clinical applications for mass spectrometry. Since 2005 he is the Director of Molecular Biology R&D at Bruker Daltonics and since 2012 Dr. Kostrzewa is the Vice President of Clinical Mass Spectrometry, R&D at Bruker Daltonics.

# Scientific Program

## DAY 1

Sunday, 1 July 2012	
17:00-20:00	Registration desk in Krol Kazimierz Hotel (KKH)
19:00-21:00	Welcome drink (patio of KKH)

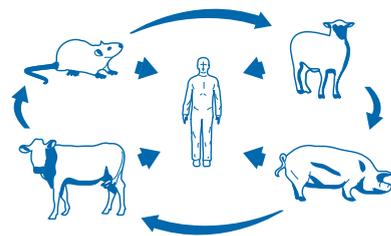
## DAY 2

Monday, 2 July 2012	
08:00-10:00	Registration desk (KKH)
09:00-09:30	Opening Ceremony (lecture hall of KKH)
<b>1<sup>st</sup> session [S1.]: General Session</b> (all aspects of veterinary diagnosis & drug resistance issues) lecture hall of KKH (09:30 - 18:15)	
09:30-10:15	<b>[S1.] Keynote lecture: The emergence of Schmallenberg virus – How to respond to new epizootics in Europe? Wim Van der Poel, DVM, PhD, Central Veterinary Institute, Wageningen University and Research Centre, Department of Virology, P.O. Box 65, 8200 AB Lelystad, Edelhertweg 15, 8219 PH Lelystad, The Netherlands</b>
10:15-10:45	Coffee break + poster session + sponsors' exhibitions (patio of KKH)
10:45-12:15	<b>[S1.] Oral presentations (6)</b> <ol style="list-style-type: none"> <li>1. Oral fluids – sample matrix for effective herd health monitoring. <b>Christina Boss</b>, Life Technologies, Germany.</li> <li>2. Diagnostic properties of several PRRS antibody ELISAs in the context of a longitudinal study of a farm using different vaccination strategies. <b>Katrin Strutzberg-Minder</b>, IVD GmbH (IVD Innovative Veterinary Diagnostics), Germany.</li> <li>3. Introduction rate of a low pathogenic avian influenza virus infection in different Dutch poultry sectors. <b>Ruth Bouwstra</b>, Central Veterinary Institute (CVI-Lelystad), The Netherlands.</li> <li>4. A duplex one-step real time RT-PCR for diagnosis of foot and mouth disease. <b>Kamila Górna</b>, ANSES, France.</li> <li>5. Validation of a competitive ELISA for the detection of antibodies anti-p26 of equine infectious anemia virus in equine sera. <b>Roberto Nardini</b>, IZS LAZIO E TOSCANA, Italy.</li> <li>6. Diagnostic performance of a commercial PRRS serum antibody ELISA adapted to oral fluid specimens: field samples. <b>Andrea Ballagi</b>, IDEXX Laboratories, Sweden.</li> </ol>
12:30-14:00	Lunch (restaurant of KKH)+ poster session + sponsors' exhibitions (patio of KKH)
14:00-14:45	<b>[S1.] Keynote lecture: Assessing the antimicrobial susceptibility of bacteria of animal origin - some basic considerations. Prof. Dr. Stefan Schwarz, Institut für Nutztiergenetik Friedrich-Loeffler-Institut (FLI), Höltyst. 10, D-31535 Neustadt-Mariensee, Germany</b>
14:45-16:15	<b>[S1.] Oral presentations (6)</b> <ol style="list-style-type: none"> <li>7. Subtyping of swine influenza viruses by multiplex real-time PCR. <b>Kees van Maanen</b>, GD Animal Health Service, The Netherlands.</li> <li>8. Importance of continuous validation of molecular methods for routine diagnosis of PRRSV RNA in clinical samples. <b>Sandra Revilla-Fernández</b>, Austrian Agency for Health and Food Safety/ Institute for Veterinary Disease Control Mödling, Austria.</li> <li>9. Viral diagnosis using transmission electron microscopy. <b>William Cooley</b>, AHVLA, United Kingdom.</li> <li>10. A bead based multiplex immunofluorometric assay for screening and confirmation of all major prion types in sheep. <b>Jan Langeveld</b>, Central Veterinary Institute of WageningenUR, The Netherlands.</li> <li>11. Using oral fluid for the serological monitorization of PRRSV circulation in a group of infected gilts. <b>Xavier Rebordosa Trigueros</b>, HIPRA, Spain.</li> <li>12. Enhanced detection of bovine respiratory viruses by inclusion of cohort animals. <b>Ronan O'Neill</b>, DAFM Laboratories, Central Veterinary Research Laboratory, Ireland</li> </ol>
16:15-16:45	Coffee break + poster session + sponsors' exhibitions (patio of KKH)

<p><b>16:45-18.15</b></p>	<p><b>[S1.] Oral presentations (6)</b></p> <ol style="list-style-type: none"> <li>13. The first year of obligatory BVD control in Germany – diagnostic strategies, results and experiences. <b>Horst Schirrmeier</b>, Friedrich-Loeffler-Institut, Institute of Diagnostic Virology, Germany.</li> <li>14. European PRRSV – diagnostic solutions for a rapidly mutating virus. <b>Christina Boss</b>, Life Technologies, Germany.</li> <li>15. Serological analysis and monitoring of IBR. Is it possible to control IBRgE antibodies in a bulk tank milk? <b>Lourdes Porquet-Garanto</b>, HIPRA, Spain.</li> <li>16. Development and validation of a real-time PCR zen gel mix for the diagnosis and quantification of Coxiella Burnetii. <b>Aleida Villa Espinosa</b>, EXOPOL, SL. Autovacunas y Diagnóstico, Spain.</li> <li>17. Ring test evaluation for the detection of PRRSV antibodies in oral fluid specimens using a commercial PRRSV serum antibody ELISA. <b>Andrea Ballagi</b>, IDEXX Laboratories, Sweden.</li> <li>18. Real time PCR, Mycoplasma Gallisepticum, Mycoplasma synoviae, Mycoplasma meleagridis. <b>André Fuchs</b>, IDEXX Livestock and Poultry Diagnostics, U.S.A.</li> </ol>
<p><b>20:00-23:00</b></p>	<p><b>Barbecue party in the garden of the National Veterinary Research Institute in Pulawy</b> (transport by buses to and from Kazimierz Dolny will be provided by the organizer – buses will leave from KKH at 19:40)</p>



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## Day 3

Tuesday, 3 July 2012	
<b>2<sup>nd</sup> session [S2.]: Diagnostics at the point of interest</b> (pen-site tests, SNAP tests and home-made tests - used beyond the lab bench area) lecture hall of KKH (09:00 - 10:45)	
09:00-09:45	<b>[S2.] Keynote lecture: When do you want the result? How much do you want to pay!</b> <b>Andrew Soldan, DVM, PhD</b> , <i>Head of AHVLA Scientific, AHVLA – Weybridge, Woodham Lane, New Haw, Addlestone, Surrey KT15 3NB, United Kingdom</i>
9:45-10:45	<b>[S2.] Oral presentations (4)</b> <ol style="list-style-type: none"><li>1. Development of a rapid isothermal assay to detect <i>Taylorella equigenitalis</i>, the causative agent of contagious equine metritis. <b>Sarah North</b>, AHVLA Weybridge, Technology Transfer Unit, Specialist Scientific Support, United Kingdom.</li><li>2. Laboratory validation of an immunochromatographic test for the rapid detection of koi herpesvirus (cyhv-3) in gill swabs. <b>Robert Vrancken</b>, Okapi Sciences N.V., Belgium.</li><li>3. Evaluation of rapid HRSV strip tests for detection of bovine respiratory syncytial virus. <b>Wojciech Socha</b>, Department of Virology, NVRI Pulawy, Poland.</li><li>4. Evaluation of A latex agglutination test for the identification of <i>Clostridium difficile</i> of porcine origin. <b>Laura Valls Vila</b>, Hipra, Diagnostic Center, Girona, Spain.</li></ol>
10:45-11.15	<b>Coffee break + poster session + sponsors' exhibitions (patio of KKH)</b>
<b>3<sup>rd</sup> session [S3.] Emerging, re-emerging and wildlife diseases - diagnostic possibilities</b> (detection tools based on commercial and home-made tests, their performance and validation in the lab) lecture hall of KKH (11:15 - 16:30)	
11:15-12:00	<b>[S3.] Keynote lecture: Emerging and reemerging wildlife diseases: pathology and related techniques for diagnostics and for general and targeted surveillance.</b> <b>Dolores Gavier-Widén, DVM, MS, PhD, Associate Prof.</b> , <i>Department of Pathology and Wildlife Diseases, Deputy Head of Dept., Head R&amp;D Division, National Veterinary Institute (SVA), SE-75189 Uppsala, Sweden</i>
12:00-13:00	<b>[S3.] Oral presentations (4)</b> <ol style="list-style-type: none"><li>1. Schmallenberg virus outbreak in The Netherlands: Routine diagnostics and test results. <b>Ruth Bouwstra</b>, Central Veterinary Institute (CVI-Lelystad), The Netherlands.</li><li>2. 25 years of passive surveillance of bats in the Netherlands. Molecular epidemiology and evolution of EBLV-1. <b>Bart Kooi</b>, Central Veterinary Institute of Wageningen UR – Lelystad, The Netherlands.</li><li>3. Diagnosis of Q fever in Dairy Cattle by Phase-specific Milk-Serology. <b>Jens Böttcher</b>, Bavarian Animal Health Service, Germany</li><li>4. EQUINE nocardioform placentitis &amp; abortion outbreak and farm-based risk factor study, 2010-2011. <b>Craig N. Carter</b>, University of Kentucky, U.S.A.</li></ol>
13:00-14:30	<b>Lunch (restaurant of KKH) + poster session + sponsors' exhibitions (patio of KKH)</b>
14:30-16:15	<b>[S3.] Oral presentations (7)</b> <ol style="list-style-type: none"><li>5. A new diagnostic tool for bovine tuberculosis - IDEXX M.bovis antibody test kit. <b>Christoph Egli</b>, IDEXX Labs, Inc., U.S.A.</li><li>6. Detection of Schmallenberg virus in the UK. <b>Anna La Rocca</b>, Animal Health and Veterinary Laboratories (AHVLA), United Kingdom.</li><li>7. Detection of WNV enzootic circulation in horses with neurological signs and in captive sentinel chickens in the prefecture of Thessaloniki, Greece. <b>Serafeim C. Chaintoutis</b>, Faculty of Veterinary Medicine, Aristotle University of Thessaloniki, Greece.</li><li>8. Schmallenberg virus: serological studies in German holdings. <b>Horst Schirrmeyer</b>, Friedrich-Loeffler-Institut, Institute of Diagnostic Virology, Germany.</li><li>9. Different diagnostic tools for a broad range of macaviruses and their reservoir and susceptible hosts. <b>Christine Foerster</b>. Institute of virology, Diagnostic laboratory, Germany.</li><li>10. Diagnostic aspects of Suid herpesvirus 1 infection in wild boar. <b>Adolf Steinrigl</b>, AGES Institute for Veterinary Disease Control, Austria.</li><li>11. Preliminary validation of the ID Screen® Schmallenberg virus Indirect ELISA. <b>Philippe Pourquier</b>, ID-Vet, France.</li></ol>
16:30-18:00	<b>General Meeting of EAVLD (EAVLD members only)</b>
20:00-22:00	<b>Gala dinner (restaurant of KKH)</b>

## Day 4

Wednesday, 4 July 2012	
<b>4<sup>th</sup> session [S4.] New techniques in bacteriology, parasitology and pathology</b> (new advances in diagnostic techniques) lecture hall of KKH (09:00 - 11:15)	
09:00-09:45	<b>[S4.] Keynote lecture: MALDI-TOF and other new diagnostic techniques. Dr. Markus Kostrzewa</b> , <i>Director of Molecular Biology, R&amp;D, Bruker Daltonik GmbH, Fahrenheitstr. 4, D-28359 Bremen, Germany</i>
09:45-11:15	<b>[S4.] Oral presentations (6)</b> <ol style="list-style-type: none"><li>1. Suitability of recombinant proteins for the diagnosis of leptospirosis in pigs. <b>Ulrike Ripp</b>, Synlab.vet Leipzig, Germany.</li><li>2. Biolog generation III, matrix assisted laser desorption/ionisation time-of-flight (MALDI-TOF) mass spectrometry and 16s rRNA gene sequencing for the identification of bacteria of veterinary interest. <b>Peter Wragg</b>, Animal Health and Veterinary Laboratories Agency (Weybridge), United Kingdom.</li><li>3. Evaluation of the diagnostic performance of peptide cocktails in the interferon gamma assay for diagnosis of tuberculosis in cattle. <b>Alex Raeber</b>, Prionics AG, Switzerland.</li><li>4. Matrix-assisted laser desorption ionization-time of flight mass spectrometry (MALDI-TOF MS) in a veterinary diagnostic laboratory. <b>Annet Heuvelink</b>, GD Animal Health Service, The Netherlands.</li><li>5. Rapid identification of bovine mastitis pathogens using MALDI TOF. <b>Gudrun Overesch</b>, Institute of Veterinary Bacteriology, University of Bern, Switzerland.</li><li>6. 15 minute ELISA using a low cost commercial biosensor. <b>Jason Sawyer</b>, Animal Health and Veterinary Laboratories Agency (Weybridge), United Kingdom.</li></ol>
11:15-11:45	<b>Closing ceremony, EAVLD2014</b>
11:45-13:00	<b>Lunch (restaurant of KKH)+ poster session + sponsors' exhibitions (patio of KKH)</b>
13:00	<b>End of the Congress (shuttle buses to Warsaw Airport)</b>