

# Aerosols

Newsletter of the World  
Veterinary Poultry Association



Editor – Charles Hofacre

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For more information on the association, membership, grants and awards, publications, meetings and links to related websites

## President's message

This message comes to you nine months into my term of office and I now have a better insight into this important role. One thing that has become more and more obvious over the years is that the strength of our association lies in the wide variety of nationalities and cultures it contains, coupled to the diversity in its members' interests, be they academic, research, practice, regulatory or industry based. This presents your officers with one of their greatest challenges, because within each of these five groupings there is a further diversity of interests, views and opinions and if you hybridise these with the cultures and nationalities you get a very interesting and challenging scenario.

This is further compounded by continent and the relative maturity of the poultry industry in each of these. I have been extremely fortunate with my unique career in that it has given me a great insight into all sectors of the poultry veterinary world and parts of the geographical world. When it comes to WVPA, this helps in understanding the differing aspirations of, for example, younger Asian and African veterinarians compared to the needs of their more senior brothers and sisters in Europe and America. These do vary and, unless WVPA can find a way of continuing to satisfy all its members, there could soon be the worrying possibility of fragmentation looming on the horizon.

So, what are we doing about it? We listen, we hear, we analyse and we try to find a way forward that satisfies the vast majority of members. In doing this, we must never lose sight of the fact that without the industry there would be no poultry veterinarians or research and without these there would be no need for academics and researchers! This being the case, I see WVPA as a great networking forum in which each faction can educate and inform the others about its aspirations, needs, challenges and problems because, with a better understanding of each other, the big machine of the poultry veterinary world will run more smoothly and positively.

Personally, I hope to be able to look back on my term in office and say 'I left the poultry veterinary world as a more cohesive unit whose constituents better understand each other!' The only regret is that I will not be able to stand by Trevor Bagust's side when saying this as this would really be the culmination of our combined presidencies.

Nigel Horrox

DAY 1	Thursday 20 <sup>th</sup> October 2016
7:30	Registration Opens
8:50	<b>Opening Ceremony</b>
9:20	Evaluation of protection provided by live or live and inactivated Newcastle vaccination programs against velogenic Newcastle disease virus genotype VII challenge in studies with SPF chicken or commercial layers <i>Andreas Herrmann, Merial, France</i>
9:40	Lifetime of immunity against avian coccidiosis: immune modulation by the use of an adjuvanted solvent <i>Martina Dardi, Hipra, Spain</i>
10:00	The importance of shedding reduction for the modern poultry industry <i>Christophe Cazaban, Ceva, France</i>
10:20	Break
10:50	The use of biomarkers in the battle against mycotoxicosis in poultry <i>Astrid Koppens, Impextraco, Belgium</i>
11:10	The potential of novel non-antibiotic growth promoter and its efficacy on <i>Clostridium perfringens</i> in broilers <i>Maximillian Sim, Amlan, Malaysia</i>
11:30	Coccidiosis control: new trends and old revolutions <i>Koen De Gussem, Huvepharma, Belgium</i>
11:50	Trends and advanced strategies in mycotoxin risk management <i>Justin Tan, Biomin, Singapore</i>
12:10	Lunch
1:20	<b>Presentation of the WVPA-Zoetis Young Veterinarian Award</b>
1:30	New and evolving trends in anticoccidial program planning <i>Aurelio G. Tayao, Elanco, Philippines</i>
1:50	Use and economics of ELISA in prevention of disease <i>Bart van Leerdam, Biochek, Netherlands</i>
2:10	Understanding and utilizing mucosal immunity in vaccination programmes <i>Chris Morrow, Bioproperties, Australia</i>
2:30	An innovative approach to control colibacillosis in poultry <i>James Kim, Zoetis, China</i>
2:50	Break
3:20	The positive effect of butyrate on intestinal morphology and immunity <i>Valentine Van Hamme, Impextraco, Belgium</i>
3:40	Effective control of Gumboro infection in the broiler industry <i>Jessica Lee, Ceva, Malaysia</i>
4:00	Performance of a live attenuated vaccine against avian coccidiosis under Asian field conditions <i>Jorge Villa, Hipra, Spain</i>
4:20	A vHVT-IBD vaccine: an effective tool for maintaining the integrity of the chicken's immune system and improving production performances <i>Yuen-Fun Phang, Merial, Malaysia</i>
4:40	<b>3rd Asian Avian Pathology Lecture</b> Introduced by Prof. Richard Jones, Chairman of the Houghton Trust <b>"Recent advances on Newcastle disease virus"</b> Presented by Professor Datin Paduka Dr Aini Ideris, Dept Veterinary Clinical Studies, Faculty Veterinary Medicine, Universiti Putra Malaysia, Malaysia  Followed by Networking Reception

## Preview of the

Following on from the first two successful WVPA Asia Meetings that were held in Thailand in 2012 and 2014, the 3rd WVPA Asia Meeting will be held on 20-21st October 2016 in Manila, the Philippines and will be hosted by The Philippines College of Poultry Practitioners (WVPA's national branch in that country).

The venue is the Crowne Plaza Manila Galleria Hotel and accommodation is available in this and nearby hotels. The meeting follows the format that was used for the last meeting with speakers from our Gold and Platinum supporters making up the programme on the first day, with the second day being made up of papers from members and academia/ research.

Diseases covered on the first day will include coccidiosis, Gumboro disease, Newcastle disease, colibacillosis, necrotic enteritis and mycotoxicoses, with other speakers discussing the use of ELISAs, vaccination and intestinal morphology and immunity.

The first day concludes with the 3rd Asian Avian Pathology Lecture entitled 'Recent advances on Newcastle disease virus', which will be presented by Professor Datin Paduka Dr Aini Ideris from the Universiti Putra Malaysia in Malaysia.

On the second day members and academia will share their experiences in a variety of areas including antibiotics, chicken anaemia virus, MRSA, avian malaria, red mite, leucosis and ruptured tracheal rings.

This WVPA Asia Meeting will also host the presentation of the 5th WVPA-Zoetis Young Poultry Veterinarian Award and the 2nd WVPA-Merial Innovation in Vaccination Award.

As previously, this meeting is providing TWO free registrations and \$US250 travel grants to



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# Come to Manila!

## the 3rd WVPA Asia Meeting



Delegates at the 2014 event held in Bangkok, Thailand.

assist two members of each Asian Branch of WVPA, to attend this meeting. Officers of the branches involved are responsible for selecting the recipients of this grant from their countries and enquiries should be directed to them in the first instance.

**For further information please refer to [www.wvpa.net](http://www.wvpa.net) or contact Mildred Esquillo in the Philippines: [deltaman.mildred@gmail.com](mailto:deltaman.mildred@gmail.com)**

## New grants from WVPA

WVPA has recently acquired a new income stream: its share of the profits from the Global Congresses and WVPA Asia Meetings.

As this money has educational sources, it has been decided to keep these funds ring-fenced and use them for a special educational purpose – to provide grants to enable WVPA National Branches to invite an international speaker to one of their meetings.

It was decided to do this, rather than to provide funds to individual members, for two reasons. Firstly, there is already money available from other sources for this purpose and, secondly, in this way more WVPA members will benefit.

Full details of the scheme will be sent to Branches shortly and they will be able to draw on this fund by the end of the year.

DAY 2	Friday 21 <sup>st</sup> October 2016
9:00	Global updates on the responsible use of antibiotics in veterinary medicine <i>Shabbir Simjee, Elanco Animal Health, UK</i>
9:15	Report on the first introduction and spread of avian influenza H9N2 in Morocco <i>Mohammed EL Houadfi, Agronomy and Veterinary institute, Morocco</i>
9:30	Diagnostics and vaccines against poultry viral disease: current status and future prospects <i>Abdul Rahman Omar, Universiti Putra Malaysia, Malaysia</i>
9:45	Class I lentogenic Newcastle disease virus experimental evolution in vivo and virulence-related quasispecies detection by ultra-deep-pyrosequencing <i>Chunchun Meng, Chinese Academy of Agricultural Sciences, China</i>
10:00	Marked decrease in egg production due to chicken anemia virus and avian adenovirus infection in a commercial layer farm in eastern Japan <i>Hirimitsu Kato, University of the Philippines Los Banos, Philippines</i>
10:15	Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) of poultry origin – an awakening future epidemic of zoonotic importance <i>Iqra Zaheer, University of Agriculture Faisalabad, Pakistan</i>
10:30	Break
11:00	<b>Presentation of the 2nd WVPA-Merial Innovation in Vaccination Award</b>
11:15	Prevention of avian malaria in domestic birds within the UK <i>Clive Madeiros, West Bar Veterinary Hospital Ltd, UK</i>
11:30	The role of eubiotics in poultry production <i>Rolando A. Valientes, DSM Nutritional Products Philippines, Inc., Philippines</i>
11:45	Thiametoxam (a pesticide): hemato-biochemical effects of sublethal doses in broiler chicks <i>Shafia Tehseen Gul, University of Agriculture, Faisalabad, Pakistan</i>
12:00	Marek's disease in a vaccinated broiler breeding flock during its peak egg-laying period in China <i>Aijian Qin, Yangzhou University, China</i>
12:15	Case report ruptured cartilaginous tracheal rings: an infectious laryngotracheitis infection lesion? <i>Renato R. Rollan, Independent Poultry Consultant, Philippines</i>
12:30	Lunch
1:30	Pathological investigation of diseases in broiler chicken at Rajshahi district of Bangladesh <i>Md. Jalal Uddin Sarder, University of Rajshahi, Bangladesh</i>
1:45	Complete genome characteristics of genotype VI and VII velogenic Newcastle disease virus <i>Dennis Umali, University of the Philippines Los Banos, Philippines</i>
2:00	Prevention strategies of poultry red mite with diatomaceous earth and liquid silica coated on the cage in South Korea <i>JongUng Yoon, Biogenoci Co.Ltd., South Korea</i>
2:15	Membrane-associated GRP78 helps subgroup J Avian Leukosis Virus enter cells <i>Lin Wang, Yangzhou University, China</i>
2:30	Results of the 2015 Bacterial Enteritis Global Impact Assessment Survey <i>Aurelio G.Tayao, Elanco Animal Health, Philippines</i>
2:45	Break
3:00	<b>Words from the President of WVPA and announcement of venue for next meeting (2018)</b>
3:30	Antiviral and immunomodulatory effects of a mixture of essential oils in broiler chicks experimentally infected with Newcastle disease virus <i>Muhammad Kashif Saleemi, University of Agriculture Faisalabad, Pakistan</i>
3:45	Evaluation of protection provided by a live HVT-vectored IBD vaccine against virulent challenges with classic IBDV, vvIBDV or IBDV variant E type and assessment of viral shedding in a study with SPF chicken <i>Andreas Herrmann, Merial, France</i>
4:00	Characterization of two novel recombinant infectious bronchitis virus isolates from China <i>Haisheng Zhou, Yangzhou University, China</i>
4:15	New insights into in vitro and in vivo immunopathogenesis of infectious bronchitis virus 793B serotype <i>Rajesh Chhabra, LLR University of Veterinary and Animal Sciences, India</i>
4:30	Study the vaccination efficacy against avian influenza at Rajshahi, Bangladesh <i>Md. Hemayatul Islam, University of Rajshahi, Bangladesh</i>
4:45	Close

# International Symposium on Turkey Diseases

In cooperation with the World Veterinary Poultry Association (WVPA), the Institute of Poultry Diseases at Free University, Berlin, Germany, held the 11th 'Hafez' International Symposium on Turkey Diseases, from 26-28th May 2016 in Berlin, Germany.

The symposium was organised to stimulate the exchange of current information related to turkey diseases and to help focus attention on specific problems and encourage new approaches to solve them.

On behalf of the World Turkey Production and Veterinary Family I was honoured to dedicate this international symposium to Prof. Dr Aly Fadly (USA) and Prof. Dr H. L. Shivaprasad (USA) for their outstanding contributions to the pathogenesis, diagnosis and control of turkey diseases.

In this year's symposium, there were 36 oral presentations given within seven main sessions. The first session had six papers that were devoted to subjects related to genetic and animal welfare of turkeys. In the second session, seven papers aimed at problems related to the diagnosis and control of several health disorders were presented; problems of antimicrobial resistance were also discussed in this session. The third session contained five papers that addressed viral intestinal disorders with emphasis on haemorrhagic enteritis.

In the fourth and fifth sessions, seven papers were presented; several viral, bacterial and parasitic diseases such as Turkey Meningoencephalitis virus, Avian Metapneumovirus and Newcastle disease,

Bordetella avium and Arcobacter and Histomoniasis were discussed.

The sixth session had five papers aimed at Ornithobacterium rhinotracheale. In the seventh session six papers were dedicated to avian influenza.

Over 150 scientists and experts from 19 countries (Austria, Belgium, Brazil, Chile, Egypt, France, Germany, Israel, Italy, Lithuania, Morocco, Russia, Scotland, Slovakia, Sweden, Tunisia, Turkey, United Kingdom and United States of America) attended the symposium.

It is my sincere pleasure to acknowledge all the speakers for their co-operation and willingness to share their expertise with the global turkey family.

I also wish to use this opportunity to express my appreciation to our sponsors. I am most grateful for their generosity, which was essential to conduct a symposium with such broad participation.

Last but not least, I would like to express my gratitude to all individuals who worked in the planning and co-ordination of this event, especially the staff of the Institute of Poultry Diseases at the Free University Berlin.

The next 12th 'Hafez' International Symposium on Turkey Diseases will be held in Berlin, Germany in May/June 2018.

I hope to see you in Berlin.

**by Prof. Dr Hafez Mohamed Hafez,  
Chairman of the Symposium,  
Honorary Life President of the  
World Veterinary Poultry Association**



Prof. Dr Aly Fadly (above) and Prof. Dr H. L. Shivaprasad (below), both with Prof. Dr Hafez Mohamed Hafez



# WVPA's Young Poultry Veterinarian for 2015

Inspired by his father who was a Veterinary Assistant with the Sarawak Veterinary Authority, Maximillian Sim graduated with his Doctor of Veterinary Medicine from Universiti Putra Malaysia in 2005.

He started his career with a UK-based nutraceutical company, Meriden Animal Health Ltd and travelled around Malaysia and Asia visiting poultry farms, integrators and feedmills to introduce the concept of natural feed additives to promoting gut health in poultry production.

Dr Sim then successfully introduced this concept to poultry farms across South East Asia to achieve effective control of coccidiosis and necrotic enteritis with the incorporation of natural feed additive and conventional drug therapies using his language skills.

He then assisted in the start up of a British-China joint venture company Meriden (Guangzhou) Biotech Co., Ltd.

He spent two years working with the founders of the company in building a technical team and worked with the top 50 poultry producers in China introducing the innovative natural product from Europe as part of his effort in promoting the concept of 'Safe Feed for Safe Food'.

During this time, he spent thousands of hours with Chinese academia and industry influencers to shift the dependency of chemical drug therapies on coccidiosis and necrotic enteritis to natural prophylactic and therapeutic options.

In 2008, Maximillian moved on to work through a US-based feed additive manufacturer Amlan International to continue his work of promoting natural gut health solutions to the poultry industry. For the past eight years, he has travelled tirelessly to Vietnam, Thailand, Malaysia, Indonesia, Cambodia and Philippines to work with top 10 poultry producers in South East Asia to offer effective control to biotoxins which includes various mycotoxicosis and bacteria toxins in their routine practices.

He believes in the importance of education and constantly travels within South East Asia to work with local veterinarians, broiler and layer producers associations, to visit poultry farmers in rural areas, to conduct seminars in disease prevention, farm management, and providing industry updates to those who

have limited access to resources related to poultry production.

With the constant support from the company, he is able to help change the industry misperception on mineral enterosorbents and demonstrate the importance of mycotoxin control in achieving effective vaccination in poultry practices.

Currently, he is working with several poultry integrators in South East Asia to promote Amlan's new innovative non-antibiotic growth promoter to control bacterial diseases such as necrotic enteritis in reducing the conventional dependency on chemical drugs.

Locally, Maximillian is a WPSA Malaysia branch member and volunteers with the Veterinary Association of Malaysia, working closely with the committee to assist in establishing standard guidelines, policies and documentation structures for the newly implemented Continuous Professional Development program for veterinary professionals in Malaysia.

To be recognised by WVPA for Young Poultry Veterinarian Award of the Year in 2015, Maximillian was honoured that his passion and hard work has been rewarded with this prestigious title.

The nomination process has helped him to reflect the wins and losses, and the experience of adversity and success since he started his journey and the award encourages him to further follow his passion on poultry gut health.

The award opened up opportunities to connect more actively with people in the industry, commercially and academically, and definitely created more opportunities to study, research and partner with some of the outstanding industry leaders to serve the poultry industry better.

Being the first young Asian and Malaysian to be recognised, Maximillian hopes to inspire more junior veterinarians in Malaysia to actively participate in contributing to the poultry industry nationally, regionally and even internationally.



Maximillian Sim



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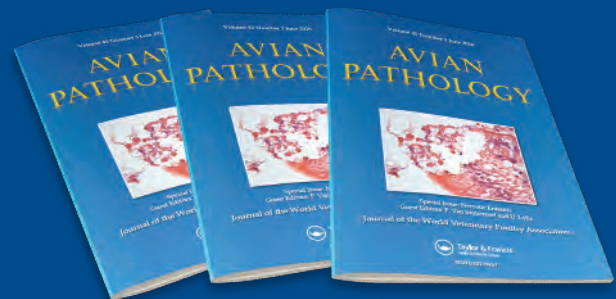
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# Branch reports

## Canada

On May 7, 2016, the Ontario Animal Health Network (OAHN), and the Animal Health Laboratory (AHL) in Guelph, Ontario, welcomed 37 veterinarians for the OAHN small flock poultry veterinary training day.

The training featured speakers from the Ontario Ministry of Agriculture and Rural Affairs (Al Dam and Dr Csaba Varga), private poultry practitioners (Dr Lloyd Weber, Dr Elizabeth Black, Dr Mike Petrik), and an avian pathologist from AHL (Dr Marina Brash).

Speakers offered expertise on topics such as vaccinations and medications, euthanasia techniques, common diseases of small flocks, an overview of the industry, practical biosecurity, management practices and troubleshooting, and a review of infectious disease. The small flock poultry research project was also promoted, which provides deeply subsidised testing for small flock necropsies and associated testing at AHL.

The course notes can be accessed by any veterinarian in North America here: <http://oahn.ca/resources/poultry/small-poultry-flock-workshop-for-veterinarians-presentations-live-video-and-resources>

Please note that you will need to create a veterinary account, and have your licensure verified to set up an account.

For further information go to: [http://www.guelphlabservices.com/AHL/Poultry\\_Flock\\_Disease.aspx](http://www.guelphlabservices.com/AHL/Poultry_Flock_Disease.aspx)

**Dr Teresa Cereno,  
Corresponding Secretary  
WVPA, Canada Branch**

## Hungary

The Hungarian Branch held their annual Derzsy Days on June 2-3 in Hajdúszoboszló. For this two day event, we were honoured by the visit of Nigel Horrox, WVPA president, and Francois Xavier Le Gros, WVPA secretary. This year's successful Derzsy Days had 284 registered participants.

President János Paljak opened the meeting and Gábor Sályi, who received the Derzsy Award this year, gave a presentation on certain metabolic disorders and poisoning in poultry. Imre Sári received the Hungarian Poultry Health Association Award.

Additional presentations were made by:

- Nigel Horrox (WVPA president) who spoke on the role of the poultry veterinarian in tomorrow's dynamic poultry industry.
- Ivan Rychlik (Veterinary Research Institute, Brno) – The function of intestinal bacteria and interactions with the immune system of the chick intestine.
- Francois Xavier Le Gros (WVPA secretary) – Duck immunology.

The afternoon program had the following presentations:

- Melinda Terényi (National Food Chain Safety Office, NFCSO) – Limiting use of antibiotics in poultry, regulation, directive.
- Gábor Kulcsár (NFCSO) – Legal and professional background of approving custom made vaccines.
- Attila Csorbai (Poultry Production Board) – Presentation of the results of international campylobacter survey.

The first day ended with a gala dinner (which took some to the next morning).

The second day's program came from the Ceva team:

- Anna Kollár (Ceva) – Live metapneumovirus vaccine for commercial layers.
- Vilmos Palya (Ceva) – Effect of different ages bursectomia on the immune response to Newcastle disease.
- Mihály Albert (Ceva) – Severe form Marek's disease in turkey PS flock: a case report.

Additional presenters were:

- László Kőrösi (AgriAL) – Enterococcus with the eyes of the field veterinarian.
- Ákos Thuma (NFCSO) – Unusually young onset of Pasteurella in ducks.
- László Kovács (Student of St. Istvan University) – Recent research results of enteric virus infections in domestic broiler flocks.

The 2016 Derzsy Days ended with János Paljak bidding everyone farewell until the next year.



János Paljak, president of Hungarian Branch, opens the Derzsy Days

**Dr László Kőrösi,  
Corresponding Secretary  
WVPA, Hungary Branch**

## Iraq

Three members of WVPA Iraq participated in scientific meetings in Gut Health in Production of Food Animals in Kansas City, Missouri, USA and the International Poultry Scientific Forum, Atlanta, Georgia, USA. The participants were Dr Yasser Jamal Jameel (President of WVPA Iraq/Head of Veterinarians Syndicate in Karbala City/

Department Head of Pathology and Avian Pathology, College of Veterinary Medicine, University of Kerbala), Dr Ali Mahdi Sahib (University of Kufa) and Dr Mohammed A. Husain (University of Kerbala).

Dr Yasser also attended the annual meeting of Poultry Science Association, Kentucky, USA and the International Production & Processing EXPO (IPPE Expo), Atlanta, Georgia, USA.

He shared his research on the 'Effect of garlic powder and vitamin E-selenium and their combination on performance, immune response, lipid profile, and blood picture of broilers'. He also presented on the 'Effect of L-carnitine, vitamin E-selenium, and Newcastle disease vaccine, via in ovo injection on hatchability and performance of broilers' and additionally on the 'Effect of three herbs anise, cumin, and rosemary and their combination on broiler lipid profile and performance'.

A training course entitled Poultry Pathology and In Ovo Injection Technology was organised by the College of Veterinary Medicine/University of Kerbala. The lectures were given by Assis. Prof. Dr Latif Ibrahim Kadhim (member of WVPA Iraq).

The course was held in the Department of Pathology and Avian Pathology, College of Veterinary Medicine, University of Kerbala.

The lectures covered many subjects, such as the principles of avian pathology and the main diseases which spread in Iraq (Newcastle disease, infectious bronchitis, and avian influenza). The Iraq branch of WVPA would like to thank Dr Wifaq Al-Bazy (Dean of Veterinary College, University of Kerbala) and Dr Latif.

Dr Yasser Jamal Jameel also received a certificate of achievement award at the 2016 International Poultry Scientific Forum in Atlanta, Georgia, USA for research with

Morouj Al-Ajeeli entitled 'Phase one laying hen performance of Hy-Line Brown layers fed soybean and soybean free diets using a caged and cage free rearing system'.

**Dr Yasser Jamal Jameel,  
Corresponding Secretary  
WVPA, Iraq Branch**

## Italy

On May 5th and 6th, the Italian branch of the World Veterinary Poultry Association held the 55th Annual Conference of the Società Italiana di Patologia Aviaria (Italian Society of Avian Pathology) in Padua.

The first day focused on the health status of the Italian poultry sectors regarding their major diseases in 2015.

Dr Battistoni (private veterinarian) showed the most common diseases in broilers and included in his presentation some interesting case reports. He reported that the infectious bronchitis virus QX-like genotype has been involved in the majority of the respiratory diseases in the Italian broiler population, while Dr Alessandri (private veterinarian) pointed out that *Riemerella anatipestifer* has been a reemerging bacteria in the turkey industry with significant economical losses.

Prof. Camarda (University of Bari), talking about the health conditions concerning laying hens, concluded that 2015 has been a favourable year for their pathologies, while Dr Scolari (Vallerama Laboratory), like last year, presented a report on the diseases of game birds (guinea fowl, duck, pheasant, etc).

At the end of the afternoon Dr Ricci and Dr Terregino (Istituto Zooprofilattico Sperimentale delle Venezie) presented respectively an update on the Salmonella National Control Plan and an update on the last HPAI Italian outbreak in layers located in the province of Ferrara.

On May 6th, the Conference was entitled 'Emerging and reemerging infections in the modern poultry industry'. Five international distinguished guests were invited as speakers in the morning session:

● Dr Bano (Istituto Zooprofilattico Sperimentale delle Venezie) and Dr Tosi (Istituto Zooprofilattico Sperimentale delle Venezie) gave a presentation on the bacterial characterisation in the study of some emerging and reemerging diseases, talking



Dr Yasser Jamal Jameel  
(President of WVPA Iraq),  
Dr Ayed Hameed,  
Dr Latif Ibrahim Kadhim,  
Dr Ehab Ghazi and  
Dr Mohammed A. Husain



# Branch reports

mainly about *Riemerella anatipestifer* and *Enterococcus cecorum*.

● Dr Faberwee (Animal Health Service, GD) talked about *Mycoplasma synoviae* that is nowadays outrunning *M. gallisepticum*.

● Dr Liebheart (University of Wien) presented strategies to control histomonosis in poultry, talking also about the new development of live attenuated vaccines.

● Dr De Gussem (Vetworks) attracted our attention with an update of the control of necrotic and bacterial enteritis in poultry.

In the afternoon, Dr Grilli (University of Milan) and Dr Pedicone (Unaitalia) presented the 2016 latest outcomes of the National Italian Plan concerning the responsible use of antibiotics for the reduction of antibiotic-resistance and Dr Cavazzoni (AISA) concluded the session with an update on the future ban of some antibiotics.

On September 20th the Annual General Meeting of the European College of Veterinary Poultry Science will be organised by Prof. Catelli at the University of Bologna.

For the first time this year scientific papers will be presented by members in a dedicated meeting of the Società Italiana di Patologia Aviaria on September 23rd in Parma.

**Dr Mattia Cecchinato**  
**Corresponding Secretary**  
**WVPA, Italy Branch**

## Israel

The 51<sup>st</sup> Annual Convention of the World Poultry Science Association Israel Branch took place in Jerusalem from 31st May to 2nd June, 2016.

Nigel Horrox, President of the WVPA, gave a presentation dedicated to his father for his 90th birthday on The Role of the Poultry Veterinarian in Today's Dynamic Poultry Industry.

He highlighted that the poultry veterinarians of tomorrow will need to be good scientists, communicators and managers, as well as being computer literate and sound in production technologies.

The scientific program was divided into sessions on:

- Physiology, embryology and incubation.
- Poultry health.
- An effective pre-harvest food safety intervention that supports immune function.

Other sessions were:

- Insoluble fibre – the forgotten nutrient in poultry nutrition.
- Benefits derived from reduction of dietary phytate from broiler diets.
- Broiler health and management.
- Automation in poultry meat processing plants, and its implications on broiler production.

The convention was a successful meeting of WPSA and WVPA members and friends involved in the poultry industry.

Additionally the Annual Meeting of the Israel Society of Veterinary Microbiology and Immunology was held at the Kimron Veterinary Institute on April 12, 2016. The meeting was attended by more than 150 participants including many members of WVPA from the Kimron Veterinary Institute and from the Ministry of Health and Hospitals.

The highlights of the meeting this year was the invitation to three guest lecturers; two scientists from the ongoing Twinning Project that is held between the Israeli Veterinary Services, Netherland and Germany.

Dr Dirk Höper, FLI, Germany talked about the 'Detection and characterisation of novel pathogens by next-generation sequencing' and Dr Wim van der Poel, CVI, Netherlands, talked about 'Schmallenberg virus outbreak in Europe 2011-2012, detection and characterisation of a new emerging virus'.

The senior expert on human infectious diseases, Prof. Y. Strachilevich from the Haddassah Medical Center, Jerusalem, whose talk was a highlight for all the audience, revealed in a very clear way the latest knowledge on bacterial resistance mechanisms to antibiotics.

On 15th February 2016 WVPA members and many friends came to the Annual remembrance day for the late Dr Oded Pleser to pay their respects to a colleague and to his family. The main topics were:

- Differences in use and control characteristics of violence between salmonella typhoid and non-typhoid strains.
- Summary of Salmonella typhimurium. contamination in a breeder flock, hatchery and broilers.
- Survey results of campylobacter contamination in broiler chickens in Israel.

**Dr R. Rachel Bock,**  
**Corresponding Secretary,**  
**WVPA, Israel Branch**



Nigel Horrox, President of WVPA at the WPSA convention in Jerusalem with Dr R. Rachel Bock.

## Korea



Dr JongUng Yoon has been elected President of the Korean Association of Poultry Veterinarians for two years.

The Korean Association of Poultry Veterinarians held their Spring seminar on April 27, 2016 in Daejeon, Korea. There were 60 poultry veterinarians in attendance.

The program included:

- CAV & REV in Korea – KyungSoo Kang (private veterinary clinic).
- Manage lameness syndrome – DongWoo Lee (Biomim).
- Poultry typhoid – MinSoo Kang (QIA).
- IB vaccination and protection – MyeongSup Kim (Merial).

**JaeSung Heo,**  
Corresponding Secretary  
WVPA, Korea Branch

## Kenya

The Vets Poultry Forum (TVPF) launched a newsletter, 'TVPF Poultry News', which will be published bi-monthly as an electronic newsletter. The mailing list for this newsletter currently stands at 105 vets spread around the country.

The newsletter will afford the Kenya members of WVPA an avenue to share expertise, news and ideas in the poultry sector. It will also serve to market WVPA and act as a recruiting tool for new members.

TVPF has also launched its website, [www.TVPF.org](http://www.TVPF.org). This is quite a milestone for our young organisation and puts TVPF on the map on the local Kenya scene and beyond. Contributions from all over the world are welcome and will be carried as articles on the website.

Ten members of TVPF have embarked on developing a poultry-training programme that we hope to partner with a local institution and convert into a certificate course. The course, to be known as 'Certificate in Poultry Management', will be offered on a distance learning basis beginning January 2017. This course will make a contribution in building capacity in poultry husbandry, besides providing some income to run the activities of the organisation.



We have identified the eight modules that will comprise the course as: A survey of the poultry sector in East Africa, anatomy and physiology of poultry, diseases and parasites of poultry, poultry husbandry, marketing poultry products in East Africa and beyond, food safety and hygiene of poultry products, biosecurity in the poultry industry and a poultry project module. On average, the course should be completed in 9-12 months, though participants will have a maximum of three years to complete it.

Although we have good capacity to develop this course – all four of our PhD qualified members will participate in writing the course – we will definitely need a review of our course by colleagues at WVPA at some point early next year.

**Dr Simon Alubbe**  
Corresponding Secretary  
WVPA, Kenya Branch

## Macedonia

The Joint 9th International Symposium on Avian Corona- and Pneumoviruses and Complicating Pathogens and the 4th Annual Meeting of the Cost Action FA1207 showed that different genotypes of infectious bronchitis virus are circulating in Macedonian poultry flocks, such as: 4/91, Italy-02, QX, Mass, and D274. Additionally, preliminary findings revealed that 22 of 32 (69%) of investigated farms were found positive for the presence of poultry red mite although with different infestation levels. Thus, this represents a serious concern for the industry besides using various acaricidal treatments.

Results from active surveillance of poultry (farm and backyard) and wild birds in 2015/2016 has confirmed the country's status free from avian influenza.

Although capacities can cover the needs of the domestic market the table egg industry in Macedonia is struggling because of low prices due to imports of large quantities of eggs from neighbouring countries. Recently, Food and Veterinary Office from Brussels has granted permission to Macedonia producers for export to European Union countries.

**Dr Aleksandar Dodovski,**  
Corresponding Secretary,  
WVPA, Macedonia Branch

# Branch reports

## Nigeria

We have continued our grassroots mobilisation right from the veterinary colleges for a better analysis of issues in the poultry industry and implementation of policies in the field of practice.

We are currently partnering with the regulatory bodies, Government agencies, research institutes and major players in the poultry industry to see how we can develop a strong national disease surveillance team to track down outbreaks of poultry diseases before it escalates, especially AI, etc.

In May 2016 we participated in a stakeholders meeting for an action-plan for the control of AI in Nigeria organised by FAO in Jos, North Central, Nigeria. We were ably represented by Dr Mohammed Bala.

Currently 26 states recorded an outbreak of HPAI in Nigeria involving 743 farms with a total of three million birds culled.

We are currently discussing with the veterinary research institute in Vom, Nigeria to see how poultry research in Nigeria can be tailored towards solving existing problems as well as proactively controlling the spread of emerging diseases or better still reducing the effects of endemic diseases in poultry practice.

Finally, the membership of the Nigeria Bureau of the WVPA is growing. We officially had a booth at the last Conference of the Nigeria Veterinary Medical Association [NVMA] in Portharcourt, November, 2015 and will do so during the upcoming NVMA Conference, November, 2016.

Plans for our national groundbreaking two day stakeholders workshop is already in the pipeline and we will give a definite date in the near future.

**Dr Jones Okoye,  
Corresponding Secretary,  
WVPA, Nigeria Branch**

## UK

The British Veterinary Poultry Association started 2016 by holding its first two day meeting of the year in its traditional northern home of Harrogate.

The meeting 'Viral Vaccines and Vaccination' saw approximately 100 delegates



in attendance. Hungarian Vilmos Palya, who succinctly covered the extensive field of Viral Diseases of Waterfowl, gave the Annual Keith Gooderham Waterfowl Lecture. The lecture was very well received and Keith Gooderham presented the award to Vilmos.

Other topics included Immunology in response to viral infection and vaccination presented by Bernd Kaspers from the University of Munich. Research papers were also given by Sjaak de Wit – Monitoring Vaccination, Venugopal Nair – Marek's disease control: Sustaining effective vaccination strategies, and Clive Naylor – Avian Metapneumovirus: vaccines and vaccinations. Ian Jones, a field veterinarian from Wales, then gave an excellent overview of field experiences in the vaccination of gamebirds (pheasants and partridges). This was of great interest to many. Jane Cook presented an overview of the history of respiratory viral vaccines.

The BVPA2016 Spring Meeting Dinner was held in the Cedar Court Hotel and the after dinner speaker was Reg Kingston from Médecins Sans Frontières who gave a very moving speech about his experiences working to help those in need in armed conflicts, epidemics and disaster zones.

The second day of the meeting included clinical papers as well as a joint paper given by UK Chief Veterinary Officer Nigel Gibbens and Ian Brown from International Reference laboratory of APHA. The thought-provoking paper 'Biosecurity and Contingency planning for avian influenza: Safeguarding businesses for the future' raised a lot of discussion

Attendees of a stakeholders forum organized by FAO with the Nigeria Agriculture Ministry to review the action plans in the control of HPAI in Nigeria.

between the authors and the delegates.

Clinical papers included ILT in broiler flocks in Germany presented by Herrmann Block, as well as Fowl pox in quails given by Alexandra McDaniel. NovaTech Engineering from the USA was also invited to give an update to BVPA. Samantha Gadenne informed the group about the latest developments on hatchery service room automation.

The BVPA Summer meeting was held at the UK's newest vet school at the University of Surrey on 23rd June 2016. The theme 'Bridging the Gap' included papers from PhD students currently working in the poultry field at the university, as well as papers from practitioners covering the transition from veterinary education to practice in the field, and an overview of the multiple opportunities available to veterinary graduates throughout their future careers. The meeting also included a full tour of the new vet school.

The winter meeting will return to Edinburgh in November 2016 where the BVPA will have a joint meeting with the Pig Veterinary Society. This will also give members the ability to start to explore this exciting city in preparation for the WVPAC2017 Congress. For more information about WVPAC2017 Edinburgh then please visit [www.wvpac2017.com](http://www.wvpac2017.com). Registrations opened on 29th July 2016.

**Phil Hammond,  
Corresponding Secretary,  
WVPA, UK Branch**

## USA

The 59th Annual Meeting of the American Association of Avian Pathologists will be held in San Antonio, TX this year. This event will be held in conjunction with the AVMA Convention from August 6-9 at the Henry B. Gonzalez Convention Center, 900 E Market Street, San Antonio, TX 78296.

The AAAP Symposium, Emerging and Reemerging Zoonotic Diseases, will be held Saturday, August 6th from 7:30am to 12:30pm. AAAP committees will meet at the Marriott Rivercenter Hotel between 2:00 and 5:00pm.

On the first day of the scientific program, Guillermo Zavala will be giving the keynote

speaker address entitled: Emerging and Reemerging Poultry Diseases: an International Perspective.

Karel Schat will give the AAAP Lasher-Eckroade History Lecture entitled, The History of the First Generation Marek's Disease Vaccines: the Science and Little Known Facts.

Finally, Chuck Hofacre will retire as the Executive Vice President of AAAP after 13 years. He will be succeeded at this annual meeting by Dr Suzanne Dougherty.

**Charles Hofacre,  
Corresponding Secretary,  
WVPA, US Branch**

## Thailand

The Thailand Branch of the WVPA organised 'Poultry Training Record' (PTR) for farmers twice in 2016 (30-31 March and 16-17 June).

As Thailand is a leading export country for poultry products, we raise chicks under the high standards and requirements of both local authority (Department of Livestock Development, DLD) and also importing countries such as EU, Japan, Canada and Middle-East countries.

Internally, poultry farms must have certified standard farm (flock record and standard operating procedure) and be inspected by a farm veterinarian, licensed from DLD, before harvesting (animal health status, withdrawal period, etc).

Externally, poultry production in Thailand is always audited by the authorised agency from importing countries. The control systems include animal health status, animal welfare, veterinary public health and residue control.

WVPA-Thailand branch collaborates with the Thai Broiler Processing Exporters Association and Genesis (authorised agency <http://www.genesisstandards.com/blog/thai-chicken-export-market-comes-over-to-genesis-standards-30/04/15>), to implement three courses since 2015:

- Biosecurity and hygiene.
- Animal welfare.
- Manual handling.

We have nine certified trainers at the moment, which are approved by Poultec in the UK, to give knowledge and the guidelines of those courses.

Dr Suzanne Dougherty



# Branch reports



Above, Dr Supatcharee Doungkaew giving a presentation at Poultry Training Record

Up to now, more than 1,500 animal husbandry workers dealing with chickens on farms have been trained.

**Dr Sumeth Sapchukun,**  
Corresponding Secretary,  
WVPA, Thailand branch

## Pakistan

A delegation of 12 members from the WVPA Pakistan Branch attended the XIXth World Veterinary Poultry Association Congress (WVPAC-2015) in Cape Town, South Africa.

The Pakistani delegation was led by Dr Hanif Nazir Ch (President WVPA Pakistan) and other members included Dr Muhammad Kashif Saleemi (Secretary WVPA Pakistan), Dr

Rana Sajjad Arshad, Dr Syed Ehtisham Shah, Dr Ashbeel Aslam, Dr Ghulam Mehboob, Dr Munwar Ali, Dr Kamran, Dr Shoaib, Dr Javed Iqbal, Dr Shahid, Mr Haseeb Akram and Dr Saif-ur-Rehman.

Three scientific presentations were made by Pakistan members. One oral presentation on embryotoxic effects of mycotoxins by Dr Saleemi and two poster presentations by Dr Ehtisham and Dr Saleemi. The WVPA partially supported two young scientists Dr M. Kashif Saleemi and Dr Ehtisham to attend and present their papers. Dr Saleemi also appreciated the financial support of WVPA after meeting with WVPA secretary Dr Francois- Xavier Le Gros. Dr Saleemi and Dr Hanif Nazir attended the WVPA Bureau meeting on 7th September. At present the Pakistan Branch of WVPA has 67 members.

**Dr Muhammad Kashif Saleemi,**  
Corresponding Secretary,  
WVPA, Pakistan Branch

Below, members of the Pakistani delegation exploring Cape Town



Far left, Dr Saleemi with WVPA Legends Prof. Richard Jones and Prof. Janet Bradbury



Left, WVPA Pakistan Secretary with WVPA Pakistan President.

# Hungarian interview with the WVPA President

Our President, Nigel Horrox, recently gave the following interview to a Hungarian poultry magazine.

## **When was the World Veterinary Poultry Association established and what was its goal?**

The World Veterinary Poultry Association (WVPA) was founded 55 years ago and we celebrated its 50th birthday at our conference in Morocco in 2011. Hungarian poultry veterinarians have been associated with WVPA since its conception.

## **Although this global organisation has a long-standing past, the Hungarian poultry society has very little knowledge about the operation of the organisation. Could you please tell us a few words about the setup/organisation, activity and objectives of the WVPA?**

I am surprised by your comment because our Hungarian branch is active and always well represented at our global congresses, of which they organised a successful one in 1997 and in 2013 they were just pipped at the post in the vote to hold the 2017 Congress.

Currently we have over 2500 members and almost 50 national branches. WVPA is run by its four executive officers (president, two vice presidents and the secretary/treasurer) assisted by their fellow members on the WVPA's Executive. Its goal is primarily one of education and sharing of technical information in the poultry health field. This is primarily achieved by its Global Congress which is held every two years and its Asia Meeting which is held in the intervening years. In addition, its journal, *Avian Pathology*, is one of the leading journals in its sector and we provide a regular newsletter called *Aerosols* to our members.

## **What is your opinion about global poultry farming trends and, within this, current poultry health? Which are the most important animal welfare challenges globally and in the given regions?**

Currently, poultry production is all about producing cost effective poultry products which are nutritious and safe for the

consumer and are derived from birds that have been humanely reared. Obviously, many diseases can adversely impact on this when it comes to bird welfare – primarily salmonella and campylobacter infections in terms of product safety. That is why today's poultry veterinarians place an ever increasing importance on preventive veterinary medicine. Globally, the main issues of concern are avian influenza and the emergence of antimicrobial resistant strains of pathogenic bacteria. Over the last year or so North America has experienced a devastating outbreak of avian influenza, while in Europe the disease has been relatively quiet, with the exception of France.

## **There are no borders for pathogens. According to your opinion how can the cause of poultry health be represented at transcontinental level?**

There are certainly no controls on the movement of wild birds and, over recent times, they have been linked to many avian influenza outbreaks. The international movement of people and goods can sometimes be implicated in disease spread but currently this is not as important as wild birds. Thus, vigilance in biosecurity terms on each and every farm in the country is therefore important. However, here we have the dilemma that the consumer wants outdoor production and then total biosecurity is an impossibility.

## **What are the new tasks of the animal health/welfare sector as a result of the growth of the world's global population and the increase of poultry production?**

Consumption of poultry meat on a per capita basis in many countries is still increasing and combined with human population growth and the ability of poultry to provide relatively cheap protein, there will be real growth in poultry production over the next few decades. For this to be maximised we must keep our flocks healthy. In addition, there has to be a sensible and well balanced stance on poultry welfare, otherwise in some countries we could find ourselves in the position that poultry welfare is usurping the welfare of mankind.

**The occasional deceitful consumer, the actions of animal rights activists and various green movements often threaten intensive animal husbandry and, within this, the animal health control gained over livestock. What do you think?**

I do not disagree. In the future, our industry must have a louder voice in certain areas and positively counter some of these negative trends if it is not to suffer from the so-called good intentions of the ill-informed. This does not mean just countering negativity, but to also be proactive in promoting the positives of our great industry.

**In the last few years we have seen the significant damage caused by panic triggered by epidemic diseases in animals. Can we prepare for this? Can it be prevented?**

Panic usually arises from ignorance of the facts. What has been pleasing is to see what many governments have been doing in recent

years to provide the farmers and the public with sound basic information so they can better understand the basics of, for example, bird flu, salmonella, campylobacter and antimicrobial resistance. However, there is now the issue that they could be 'preaching to the converted' and the minority who really need to be educated will not listen to you because they know best – which obviously they do not!

**What is your opinion of the Hungarian poultry sector? What is the relationship with the Hungarian division of the WVPA?**

I have been fortunate over the years to visit some poultry farms in your country and I have always been impressed by what I saw. I am not in a position to comment about the relationship between your poultry sector and WVPA in Hungary. However, it is important in any relationship for each party to respect the other's aspirations, skills and people and for both parties to be proactive in working together in securing your industry's future.

## Avian Pathology

Avian Pathology has been the official journal of the World Veterinary Poultry Association ever since 1972 when it first came into being as the brainchild of Professor Klimeš from Brno in former Czechoslovakia. Now it is officially owned by a charitable trust, the Houghton Trust and is produced by the international publishers, Taylor & Francis.

Since its early days the journal has grown and prospered and its prosperity has been of great value to poultry scientists, not only for the dissemination of knowledge on ground-breaking research but because the royalties earned by the journal are returned to the poultry community by the Houghton Trust in the form of travel and small project grants and by sponsorship of two prestigious biennial award lectures. These are all aimed at helping and encouraging younger workers to enhance their careers in poultry research or the wider aspects of the poultry industry (see <http://www.houghtontrust.org.uk>).

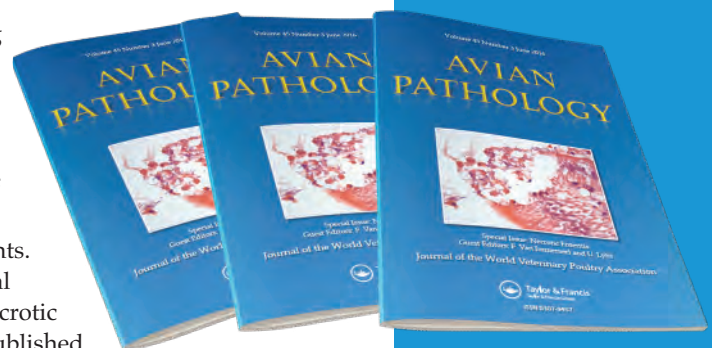
Therefore, in supporting the journal by submitting high quality research articles and/or by purchasing subscriptions to the journal, or by the purchase of individual articles, you are helping to perpetuate and enhance the poultry community in general.

The many advantages of publishing in the

journal can be viewed at <http://explore.tandfonline.com/page/est/cavp-info> and include a discounted personal subscription for WVPA members plus other attractive features such as a worldwide readership, rigorous peer review, no page charges, selected colour pages printed free and rapid publication via Accepted Manuscripts Online.

The advantages of subscribing and reading the journal articles are to keep you well-informed of current developments.

The Special Issue on Necrotic Enteritis (published in June) is of particular topical interest to all those who are involved in poultry disease, welfare, nutrition and management.



**Janet M. Bradbury,  
Editor-in-Chief,  
Avian Pathology**



# WORLDWIDE CALENDAR 2016-2018

**VIV ASIA 2017**  
MARCH 15 - 17, BANGKOK, THAILAND

**VIV MEA 2018**  
FEBRUARY, ABU DHABI, U. A. E.

**VIV EUROPE 2018**  
JUNE 20 - 22, UTRECHT, THE NETHERLANDS

**VIV RUSSIA 2017**  
MAY 23 - 25, MOSCOW, RUSSIA (May 23: invitation only)

**VIV TURKEY 2017**  
JULY 6-8, ISTANBUL, TURKEY

**VIV CHINA 2018**  
SEPTEMBER 17 - 19, NANJING, CHINA

**VIV POULTRY & EGG SUMMIT  
LATIN AMERICA 2016**  
OCT 26-27, BUENOS AIRES, ARGENTINA

[WWW.VIV.NET](http://WWW.VIV.NET)



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# Genotypic characterisation of Reovirus strains

Reoviruses are involved in a wide variety of diseases in poultry especially in the meat branch, however most of the commercial broilers (up to 85-90%) are infected without clinical signs. In the Kosher slaughter of broilers in Israel, 'Tendon Cross Syndrome' which involves rupture of at least one of the 16 Gastrocnemius muscle tendons, has a special meaning due to disqualification of poultry with ruptured tendons due to Kashrut reasons.

This syndrome has been reported as caused by Reovirus. The outcome of this is heavy economic damage to growers. With the increase of events and economic damage in 2014-2015 it was decided to carry out a precise genetic classification of the virus isolates in Israel.

According to a study carried out in 2010 in Israel, Reoviruses are divided into four genetic groups (1-4). Group 1 includes the commercial vaccine strain s1133 (Goldenberg et al, 2010, Avian Pathol. 39, 189-199).

Monitoring of outbreaks and phylogenetic changes that had occurred in Reovirus in Israel in 2014-2015 using RT-PCR method and Sigma-C gene sequencing showed that a high percentage of isolates belong to genotypic Group 2 with a change of up to 10-12% in comparison to 2008's isolates.

A total of 205 events were tested in the Laboratory of Avian Diseases in Kimron Veterinary Institute in 2015 (the isolation process had been carried out in the Poultry Health Laboratories, Egg and Poultry Board,

and allantoic fluids or tendons were usually sent), and 85% were positive to Reovirus by PCR. Among the Reovirus-positive, prevalence of Group 2 was 90%. Following this finding it was recommended to extend the vaccine given to breeding flocks according to these genetic changes in the virus.

**Avishai Lublin, Yigal Farnoushi, Sara Mechani, Division of Avian and Fish Diseases, Kimron Veterinary Institute, Bet Dagan, Michael Pirak, Shimon Pokamunski, Poultry Health Laboratories, Egg and Poultry Board.**

## Contributions to Aerosols

Why not tell Aerosols' readers about your branch and its activities (good quality pictures are always welcomed) as well as forthcoming meetings so that we can mention them in our diary of future events.

National WVPA Branch Secretaries and individual members are encouraged to send contributions for inclusion in future editions of Aerosols to Sue Clanton at: [sclanton@uga.edu](mailto:sclanton@uga.edu)

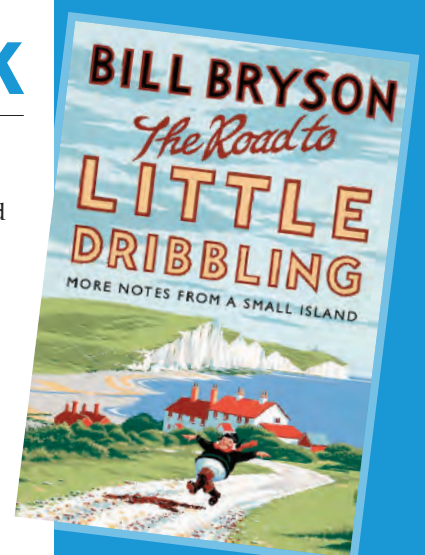
# Olaf Swarbrick

Olaf Swarbrick was a member of BVPA and the only person to be its president twice. He was one of the 'old brigade' – an outstanding clinician with a perceptive mind coupled to the tenacity of a terrier who had a variety of interests some of which, including the one detailed here, very few of his professional colleagues knew about!

From Page 376 of *The Road to Little Dribbling* by Bill Bryson:

... There is so much stuff that no one can

definitively say how much there actually is. Isn't that splendid? I had just by chance read an article in *Current Archaeology* about a man named Olaf Swarbrick, a veterinarian by profession, who spent a good portion of his life tracking down all the ancient standing stones in Britain. It seems no one had done this before. Swarbrick found 1,502 stones at 1,068 locations. That is a much larger number than it sounds. If you decided to visit one standing stone a week, it would take you twenty years to see them all.



# Quick quiz – How much



1. Who, what, where, when?



2. What, where, when?



3. Who, what, where, when?



4. Where, when?

## WVPA XXth Congress 2017

It is with great pleasure that we invite you, on behalf of the World Veterinary Poultry Association, to join us at the WVPA XXth Congress 2017 which will take place at The Edinburgh International Conference Centre (EICC), Edinburgh from 3-8th September 2017.

After the success of the WVPA Congress 2013 in Nantes, the WVPA organising committee were delighted to announce that the XXth would take place in the Scottish capital of Edinburgh in 2017. This is an

excellent opportunity for businesses in the industry to engage with professionals in the poultry science research field and approach their target market.

The Congress will attract a wide range of delegates; poultry

research scientists and practitioners with the congress theme focusing on the rich poultry science research history of the UK: 'Poultry Veterinary Science – Remembering past roots, exploring current challenges, developing future solutions.'

It is expected that the Congress will attract delegate numbers in excess of 1200 visiting Edinburgh from over 70 countries joining together to explore the past, share the present and helping to forge the future of poultry veterinary science.

We very much look forward to welcoming you to Edinburgh in 2017.

More details, and to register, visit:  
[www.wvpac2017.com](http://www.wvpac2017.com)

**Philip Hammond**  
Chairman,  
Local Organising Committee  
WVPA XXth Congress 2017



# How do you know about the WVPA?



5. Where, when?



6. Who, where, when?



7. Where, when?



8. What, where, when?



9. Who, what, where, when?



10. Who, what, where, when?

## Answers:

1. Trevor Bagust and Ursula Heffels-Redman • Ursula's receipt of Honorary Life Presidency • Cancun Congress • 2011
2. WVPA 50th birthday cake • Marrakech Congress • 1999
3. Adrian Knoetze • 3rd Young Poultry Veterinarian Award winner • 2nd WVPA Asia Meeting • 2014
4. Cape Town Congress • 2015
5. 2nd WVPA Asia Meeting • 2014
6. Korean delegation • 1st WVPA Asia Meeting • 2012
7. Nantes • 2013
8. Zulu beads • Cape Town Congress • 2015
9. Trevor Bagust and Peter Biggs • Nantes Congress • Peter's induction into Hall of Honour • 2013
10. Dick Jones (Houghton Trust) and Prof. Thaweesak Songserm (Asian Avian Pathology Lecturer) • 1st Avian Pathology Lecture • 1st WVPA Asia Meeting • 2012

# AVIAN INFLUENZA 2016

A one day technical conference

14th November 2016 • Hannover, Germany  
(The day before Eurotier)

With the next European flu season approaching at the end of the year, this conference is ideally timed to give you the opportunity to reflect and plan for the future.

This conference will look at what has recently been happening in the USA, South East Asia, France and the UK before considering the latest thinking on the practicalities and technicalities of control including compartmentalisation, vaccination, monitoring & surveillance and disinfection.

Places, at £190, which includes a set of the proceedings, lunch and refreshments, can be booked direct from the website [www.positiveaction.co.uk](http://www.positiveaction.co.uk)

Co hosted by:  
International Poultry Production and International Hatchery Practice



## 3rd WVPA Asia Meeting

# Prevention is better than cure

A specialist meeting for poultry veterinarians and health scientists that will look at all aspects of the theme in relation to the current Asian disease situation.

20-21st October 2016  
Manila, Philippines

For further information contact:  
WVPA Philippines: [deltaman.mildred@gmail.com](mailto:deltaman.mildred@gmail.com)  
WVPA Global: [palmpositive@yahoo.com](mailto:palmpositive@yahoo.com)

## Broad Coverage

Early homologous protection against *Salmonella* for chickens, turkeys and ducks



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metabolic drift mutations  
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A bivalent live vaccine administered via drinking water, with adequate safety (Metabolic Drift Mutation), reduced survival in the environment which entails a faster extinction in stable dung (Linde *et al* 1997), and reliable differentiation. The administration via drinking water enables an easy application that parallels the natural path of infection, triggering the most efficient defense against *Salmonella* (secretory IgA + cellular immunity).

**The bivalent solution for crucial homologous protection.**



**Elanco**

[www.Salmonella360.com](http://www.Salmonella360.com)

# Diary of meetings 2016/17

## August

**5-9 – American Veterinary Medical Association and American Association of Avian Pathologists**  
San Antonio, Texas, USA  
Website: [www.avma.org](http://www.avma.org)  
[www.aaap.info](http://www.aaap.info)

## September

**6-8 – VIV China**  
Beijing, China  
Website: [www.vivchina.nl](http://www.vivchina.nl)

**27-30 – National Veterinary Poultry Conference**  
Abuja, Nigeria  
Website: [www.poultryvetsnigeria.com](http://www.poultryvetsnigeria.com)

**28-30 – National Meeting on Poultry Health, Processing and Live Production**  
Ocean City, Maryland, USA  
Website: [www.dpichickens.org/events](http://www.dpichickens.org/events)

## October

**20-21 – WVPA Asia Meeting**  
Manila, Philippines  
Website: [www.wvpa.net](http://www.wvpa.net)

**26-27 – 4th IHSIG Symposium**  
São Paulo, Brazil  
Website: [www.ihsig.com](http://www.ihsig.com)

## January 2017

**30-31 – International Poultry Scientific Forum**  
Atlanta, Georgia, USA  
Website: [www.ippexpo.org](http://www.ippexpo.org)

**31-2 February – International Production & Processing Expo (IPPE)**  
Atlanta, Georgia, USA  
Website: [www.ippexpo.org](http://www.ippexpo.org)

## March

**19-22 – 66th Western Poultry Disease Conference (WPDC)**  
Sacramento, California  
Website: [www.conferences.ucdavis.edu](http://www.conferences.ucdavis.edu)

## June

**30 – 2 July – Emerald Coast Veterinary Conference 2017**  
Destin, Florida, USA  
Website: [www.emeraldcoastvc.com](http://www.emeraldcoastvc.com)

## July

**17-20 – Poultry Science Association Meeting**  
Orlando, Florida, USA  
Website: [www.poultryscience.org](http://www.poultryscience.org)

**21-25 – American Veterinary Medical Association and American Association of Avian Pathologists**  
Indianapolis, Indiana, USA  
Website: [www.avma.org](http://www.avma.org)

## September

**3-8 – XX Congress of the World Veterinary Poultry Association**  
Edinburgh, Scotland  
Website: [www.wvpa.net](http://www.wvpa.net)

**25-27 – National Meeting on Poultry Health, Processing and Live Production**  
Ocean City, Maryland, USA  
Website: [www.dpichicken.org/events](http://www.dpichicken.org/events)

## Forward planning:

### June 2018

**20-22 – VIV Europe 2018**  
Utrecht, The Netherlands  
Website: [www.viveurope.nl](http://www.viveurope.nl)

### July 2018

**13-17 – American Veterinary Medical Association & American Association of Avian Pathologists**  
Denver, Colorado, USA  
Website: [www.avma.org](http://www.avma.org)  
[www.aaap.info](http://www.aaap.info)

## SUPPORTERS OF AEROSOLS

WVPA would like to thank the following companies for their support, especially of Aerosols



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