

Aerosols

Newsletter of the World
Veterinary Poultry Association



Editor – Charles Hofacre

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Time for reflection

The last few months have been a time for reflection following the death of our President, Trevor Bagust, earlier this year. Unfortunately, the WVPA Constitution does not really cater for such an occurrence and so your Executive decided to respect Trevor’s tenure of office by not appointing an interim President, but to let the Officers (the two Vice Presidents and the Secretary/Treasurer) run your Association. This is what is now happening and we are pleased to report that everything is running smoothly.

At the Nantes’ Bureau Meeting, Chuck Hofacre was given a mandate to review the constitution and propose amendments to make it more fit for purpose for the next couple of decades. This Chuck proposes to do by seeking general comments in Cape Town in 2015 and then bringing formal resolution(s) forward for discussion before ratification in Edinburgh in 2017. This, it is felt, will give everyone enough time to reflect on the issues so we do not rush into things too quickly and end up ‘marrying in haste to repent at leisure’!

The loss of Trevor means that, as well as electing a President and Vice President in Cape Town, we will need to elect a second Vice President to serve the four years that Trevor would have served as retiring president.

To date, 2014 has been interesting for WVPA. May saw the first European Meeting of WVPA, which took the form of an afternoon session during VIV Europe in Utrecht, Holland. The theme was ‘Emerging Avian Health Threats’ and it attracted over 100 attendees who enjoyed four excellent presentations.

Recently, WVPA visited South Africa to be briefed on the 2015 Cape Town Congress and were very impressed with what they saw and how things were progressing. Well done South Africa – just over a year to go! Everyone should be planning to go to Cape Town for what promises to be an excellent congress in September 2015!

The 2nd WVPA Asia Meeting, which will also host the 2nd Asian Avian Pathology Lecture and the presentation of the 2014 WVPA-Zoetis Young Poultry Veterinarian Award, will soon be upon us. It has an excellent programme and is being well supported by our commercial friends. So, please try to get to Bangkok on 11-12th September 2014 for what should be a thought-provoking and interesting meeting!

Your Officers

Visit: www.wvpa.net

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



Trevor J. Bagust
(1944-2014)

Born in 1944 in Tauranga, New Zealand, Trevor John Bagust came from a family of farmers and builders. His schooling was at Mt Albert Grammar School Auckland, on completion of which he crossed the 'ditch' to the University of Queensland, graduating in 1966 with the degree of Bachelor of Veterinary Science. This was followed by a PhD in animal virology (bovine and equine herpesviruses) at the same university, completed in 1970.

Immediately following his PhD, Trevor was employed as a research scientist developing animal vaccines at the Commonwealth Serum Laboratories, Victoria, and then in 1973 was recruited into the Commonwealth Scientific and Industrial Research Organisation (CSIRO) Division of Animal Health, Parkville, Victoria to develop an avian diseases research programme.

Trevor was responsible early in his career for the design, establishment and operation of the National Specified Pathogen-Free Poultry Facility, opened in 1977, which provided a foundation for avian disease research, vaccine production and avian exotic disease diagnosis in Australia and other southern hemisphere countries for some 20 years.

From 1975 to 1985 Trevor developed and led a large CSIRO programme of research into a number of infectious diseases of major economic importance to the Australian poultry industry.

These included avian leucosis, reticuloendotheliosis, infectious bursal disease, infectious bronchitis and infectious laryngotracheitis (ILT). His work improved our understanding of mechanisms of pathogenesis, transmission, diagnosis and control of these viral infections, and in the case of lymphoid leucosis virus led to its eradication from Australian commercial flocks. Of particular note was his discovery that the trigeminal ganglion becomes a major site for latency establishment by ILT viruses, including modified live virus vaccine strains, that later underwent reactivation and spread.

His work also led to the development and commercial application of the A20 vaccine strain of ILT virus that is still used in Australia and overseas over 20 years after its discovery. In recognition of his knowledge and expertise, Trevor was invited to co-author

the chapter on ILT in 'Diseases of Poultry', which he did for three editions between 1991 and 2003.

In 1985 Trevor was appointed Officer-in-Charge of the CSIRO Animal Health Research Laboratory, and between 1987 and 1989 was acting Chief of the CSIRO Division of Animal Health. While Officer-in-Charge, Trevor was appointed Director of Australia-China Poultry Projects (1988 to 1996) operated through AusAID, the Australian international development agency. Under his leadership, China's national specified pathogen-free poultry production facility at Harbin Veterinary Research Institute, the Poultry Diseases Diagnostic and Training Centre at Tianjin and the Beijing Laboratory Animals Research Centre were all established.

In 1997, Trevor was honoured for his work in China and in Vietnam by the award of the Kesteven Medal by the Australian Veterinary Association in recognition of his outstanding achievements in international animal health development assistance.

Throughout his time in the CSIRO Trevor worked with and provided opportunities for many colleagues and was very supportive of, in particular, young scientists, including many from overseas countries for whom he provided crucial training and opportunities.

Trevor hosted many distinguished scientists and visitors to the CSIRO Animal Health Research Laboratory and was tireless in promoting the individual and collective achievements of avian disease research in Australia.

In 1996, after the closure of the CSIRO Animal Health Research Laboratory in Parkville and translocation to the Australian Animal Health Laboratory site in Geelong, Victoria, Trevor departed CSIRO and was appointed Senior Lecturer in the Faculty of Veterinary Science at the University of Melbourne. In 1998 Trevor undertook the development of a Master of Veterinary Studies course for postgraduate specialization in avian health, and from 2004 to 2010 was pivotal in the establishment and development of Avian Health Online (AHO). This programme provides postgraduate education and training of avian veterinarians via online interactive learning and is an academic collaboration between the University of Melbourne and the University of Georgia, USA.

Trevor's passion for education through AHO has resulted in training of more than 30

Trevor John Bagust (1944-2014)

veterinarians from all over the world. Most of these currently serve as poultry specialists for major poultry breeding or pharmaceutical companies. At every World Veterinary Poultry Association (WVPA) meeting, Trevor planned a get-together lunch or breakfast with all the past and current students, as well as any AHO course contributors who were at the meeting. This made everyone feel part of a family – the AHO family.

Trevor authored some 70 peer-reviewed scientific articles and textbook chapters. In recognition of his scientific standing and his seminal contributions to AHO, in 2012 he was appointed an Adjunct Professor in the Department of Population Health at the University of Georgia and an honorary Associate Professor at the University of Melbourne.

He was a Life Member of the Australian Veterinary Association and the Australian and New Zealand College of Veterinary Scientists, and was an editor and member of the Advisory Board of Avian Pathology.

In 2013 he was admitted as a foundation member of the WVPA Hall of Honour. Trevor was twice a former President of the

Australasian Veterinary Poultry Association and its representative within the Bureau of the WVPA for some 20 years to 2012. He was elected President of the WVPA in 2011; a position he was to continue until August 2015 but for his untimely and sudden death on 28 February 2014. Trevor loved to play the piano, smoke his pipe and speak French, which he loved and used with flare. Friends and colleagues knew him by the sobriquet 'T-Bags', which is obviously a truncation of his name. He was a person possessing boundless energy and enthusiasm and was the eternal optimist. Trevor had a remarkable, full, and varied career of achievements.

Most recently he had been enjoying 'semi-retirement' in coastal Victoria, devoting time to playing bridge, music, gardening, reading and furniture restoration. He is survived by his wife Joanne, daughters Fiona, Kathryn and Elizabeth, and grandchildren Jacob, Lachlan and Elise.

**Kevin Whithear, Jagoda Ignjatovic
& Amir Noormohammadi**
Faculty of Veterinary Science, University of
Melbourne, Parkville, VIC, Australia

A loss to WVPA

On the WVPA front Trevor had been active for many years as the Bureau Representative of the Australasian Branch and he played his part in Sydney successfully gaining and then hosting the 1993 WVPA Congress.

Trevor became Vice President in 2005 at the Istanbul Congress in Turkey and assumed the Presidency six years later at the Cancun Congress in Mexico. Over the years Trevor had worked in various disciplines and countries and this, coupled with his international interpersonal skills, gave him the ideal range of skills to take on the challenging role of WVPA President. He also had the great ability to delegate with responsibility, which allowed his fellow officers to successfully progress various WVPA projects. They always knew something needed his consideration and reflection when he adjourned a meeting to go into pensive mode with his beloved pipe!

During his time as President of WVPA Trevor oversaw various successes such as the revamping of the WVPA website, the

inauguration of the WVPA Asia Congress in 2012 and the creation of the WVPA Young Poultry Veterinarian Award, which was presented in both 2012 and 2013.

But, if you could ask Trevor what gave him the most satisfaction, he would undoubtedly have answered the creation of the WVPA Hall of Honour, which he personally supervised and then launched at the Nantes Congress in 2013. It was a fitting tribute to Trevor that he was one of the founding intake into this Hall of Honour.

Trevor always had time for his professional colleagues, whether they were young veterinarians or scientists facing the daunting experience of their first Congress and presentation; or senior colleagues in the latter stages of distinguished careers. Trevor was fortunate enough to have been blessed with a unique combination of professional, scientific and people skills which meant that one could rightly say that 'Trevor's greatest attribute was that he was Trevor!'

**Nigel Horrox
Hafez M. Hafez**
Vice Presidents of WVPA

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Canadian health update

Sustainability of the Canadian Global Food Animal Residue Avoidance Databank

The responsible use of antibiotics is currently a key topic. Antibiotics are important not only to treat infections but also to alleviate pain and therefore address animal welfare.

To proactively reduce the risk of antibiotic residues, veterinarians need to provide producers with accurate information on the disposition of drugs or chemicals in animals prior to slaughter.

With financial support from pharmaceutical companies, veterinary medical associations, and livestock and poultry producer groups, Canada joined a Global Food Animal Residue Avoidance Databank program known as CgFARAD.

This is a non-profit academic service, in place for many years now, independent of the Canadian Food Inspection Agency (CFIA) or the Veterinary Drugs Directorate of Health Canada. Based at the Western College of Veterinary Medicine in Saskatoon, Saskatchewan and the Ontario Veterinary College, in Guelph, Ontario, the CgFARAD provides information on residue avoidance as well as conducts research on drug metabolism that otherwise would not be carried out.

Veterinarians submit requests for specific withdrawal recommendations before off label or extra label drug use (ELDU) in Canada. However, the CgFARAD will not give a recommendation of a withdrawal time for drugs without a Drug Identification Number (DIN). A drug must have been registered for use in Canada for humans or at least for one animal species to have a DIN.

On average, CgFARAD makes about 1500 recommendations per year. Stakeholders are unanimous in their recognition of the value of CgFARAD to consumers in Canada as well as to our trading partners. Prior to slaughter, the CFIA requires a poultry producer to provide the processor with a Flock Sheet (FS). The FS contains information that provides the necessary level of confidence that identified potential chemical and biological hazards associated with live domestic poultry have been considered, and to the extent possible, controlled and/or prevented at the farm level

and/or during transportation. FS data allow CFIA staff to judge if the processor is taking the necessary preventive measures to evaluate incoming flocks according to the written specifications contained in their food safety program. When ELDU is required, veterinarians shall supply the producer with a prescription which includes the withdrawal time and the CgFARAD reference number for recording on the advance copy of the FS.

A copy of the veterinary prescription containing information on the withdrawal period, the name of the veterinarian who prescribed the drug, the date of the prescription, the condition being treated and the reference number must be submitted with the advance copy of the FS. In 2013, poultry practitioners made up 62% of CgFARAD requests.

Since the CgFARAD obtains financial support from pharmaceutical companies, veterinary medical associations, and livestock and poultry producer groups, the sustainability has always been threatened.

The Canadian Association of Poultry Veterinarians has always provided financial support, but it is a small organisation that is now having difficulty meeting its financial contribution. An inner advisory committee within the CgFARAD was created to source more permanent funding, perhaps coming from a federal budget.

In the meantime, an application for funding will be sent to Agriculture and Agri-Food Canada for Growing Forward 2 (GF2). GF2 is a five-year (2013-2018) policy framework for Canada's agricultural and agri-food sector. It is an investment by federal, provincial, and territorial governments and CgFARAD hopes that the application for funding will fall into one of GF2's frameworks for the development and implementation of new agricultural risk management tools.

Teresa N. Cereno

Corresponding secretary of WVPA Canada

Minutes from Nantes

The minutes from the WVPA XVIII General Business Meeting 2014 in Nantes are available in PDF from:

www.wvpa.net/pdfs/XVIII_GBM_WVPA_2014.pdf

Austria



Dr U. Herzog
(CVO Austria)

In 2014, the first meeting of the Austrian poultry sector took place early in January during the Ecosocial forum in a small village in the southeast of the country. This annual meeting is supposed to link agriculture and veterinary medicine resulting in a high number of participants from all sectors. The scope of the meeting ranged from marketing issues towards new legislation. The consequences faced by production due to the ban of GMO soya was a special focus.

Meeting activities continued in April when the Association to Promote Research in Poultry Science (VAG) organised for the third time a two-day meeting outside Vienna at Lake Neusiedl, in a splendid resort. This meeting has succeeded to link science and social activities in an excellent way, enabling intensive discussions and networking. Guest speakers came from Holland (J. J. De Wit) and

Germany (D. Schulze, H. Block and M. Pöppel), who gave presentations on new diagnostic methods and diseases in turkeys, broilers and layers. Veterinary health issues were targeted by presentations about salmonella and campylobacter. Data about the use of antibiotics in veterinary medicine highlighted again the huge responsibility of veterinarians as pointed out by Dr Herzog, the Austrian CVO. Linking antibiotic

monitoring and use, in addition to other subjects, with production was introduced as the core of a new program which should be implemented by the Austrian poultry industry. The program was initiated by the national Poultry Health Service (QGV) and should enable relevant EU legislation to be applied in Austria.

Two different projects, carried out at the Clinic for Poultry and Fish Medicine, University of Veterinary Medicine Vienna, were combined with small conferences and workshops. Firstly, the newly established Christian Doppler Laboratory for Innovative Poultry Vaccines started in March with an official opening and a seminar covering aspects of poultry health and genetics up to the use of autogenous vaccines

for disease prevention. These were presented by renowned speakers (J. Chroboczek, H. M. Hafez, J. McKay and T. Noe) and specialists. Fowl adenoviruses and *Histomonas meleagridis* are within the main focus of the co-operation set up between vaxxinoa GmbH in Germany and the clinic in Vienna.

In June, the closing meeting of the CEPO project took place at the Campus of the University. This project was a joint meeting between the Vetmeduni Vienna and the Georgikon Faculty of the Pannonian University in Hungary, to strengthen the Austrian/ Hungarian poultry industry. Consequently, most participants came from these two countries to listen to talks which focused on nutrition, gut health and poultry health in general. Invited speakers were C. Ewers (Justus-Liebig University in Giessen), who spoke about *E. coli* infections and B. Svihus (Norwegian University of Life Sciences), who highlighted the importance and function of the gizzard for the digestive process. There was a common consensus that all options should be evaluated to continue the successful collaboration. The social part of the event was dominated by a football match, which was lost by Austria despite an intensive training program.

Prof. Dr Michael Hess
Corresponding Secretary of WVPA Austria



Speakers at the
IPOV seminar



Austrian and Hungarian
football teams

China

Subgroup J avian leukosis virus (ALV-J) was introduced into meat-type chickens in China with the imported ALV-J infected breeders in the 1990s and caused a lot of economic losses as seen in other countries. Some Chinese breeder companies with AA and Ross lines started to be clean from 2003 by inspection of imported breeders, but ALV-J related tumour cases continued to be reported in other breeders of different white meat-type chicken lines until 2007. During the last few years, there has been no ALV-J cases reported in white meat-type chickens. However, ALV-J has been gradually transmitted into layer and Chinese local yellow chicken farms since the early 2000s. ALV-J was isolated and confirmed in layers and yellow chickens respectively in the mid 2000s. Severe outbreaks of ALV-J myelocytomatosis and haemangioma with high mortality of 5-20%

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spread in layers in China during 2008-2009 and it was estimated that about 60 million layers died of ALV-J related tumours in 2009 alone. To resolve the problem, the Chinese Ministry of Agriculture has carried out a national surveillance program on ALV infection status to all layer grandparent breeder farms since 2010. Some pedigree breeder flocks have even initiated a very strict eradication program for ALV since 2009. At least one pedigree layer breeder farm is already free from exogenous ALV infection. The ALV-J cases in layers were dramatically dropped nationwide from 2011, and almost no more cases were reported in layers since 2013.

ALV-J is still spreading to many farms of different Chinese indigenous chicken breeds and Chinese developed meat-type yellow chicken breeds, and the ALV-J related lesions of myelocytomatosis and haemangioma have been detected in more and more farms and breeds. The eradication programs have been conducted in a limited number of farms in several provinces and progressed very well so far. There are so many independent farms or companies of different chicken breeds, however, it is long way to go to control ALV-J infection in chicken farms of Chinese local breeds.

The 17th National Conference of Chinese Association of Avian Pathologists (CAAP) will be held on 7-10th November, 2014, in Guangzhou City, China. The National Conference of CAAP is held every two years and usually more than 400 participants attend. The conference will focus on the current major disease problems in poultry production. Foreign avian pathologists are welcome, but Chinese will be the only language during the conference.

Dr Zhizhong Cui

Corresponding secretary of WVPA China

Hungary

A meeting was organised in March to inform members about the scientific lectures from the WVPA Congress in Nantes. The following lectures were given:

- Péter Erdei. Safety of poultry products.
- László Kőrösi. Nutrition and poultry health and mycoplasma.
- Imre P. Horváth. Viral respiratory diseases IBV.

- János Povazsán. Viral respiratory diseases ND and therapeutics and antibiotic resistance.

After the scientific meeting Mihály Dobos Kovács introduced his new book on the pathology of domestic birds.

Derzsy Days

The annual Derzsy Days was held in Szeged, a nice city located in south Hungary on the bank of the river Tisza, in June. More than 250 participants enjoyed the presentations.

Csaba Nemes, head of the Kaposvar Veterinary Diagnostic Laboratory, received the Derzsy Award. The title of his presentation was 'Why is it difficult to diagnose disease in poultry?'

There were two speakers from Spain on the Thursday morning. Natália Majó Masferrer (Universitat Autònoma de Barcelona) presented Recent European experience with IBV variants. Juan Carlos Abado from Cobb Spain presented on Colibacillosis in poultry. Zoltán Péntzes presented the importance of IB QX strains and the opportunities for protection by vaccines.

On Thursday afternoon a block of nutrition issues was presented – Nutrition effect for digestibility and gut flora by Károly Dubblecz (Keszthely University), Mycotoxin and the possibilities of protection by Miklós Mézes (Szent István University), Feed sampling and monitoring for mycotoxins by Géza Denkinger (Nébih). Mihály Albert (Ceva) presented a case study of ionophore toxicosis in turkeys.

Two lectures on antibiotics were presented in the second part of Thursday afternoon. Melinda Terényi (Nébih) on Actual questions of antibiotic usage and Szilárd Jánosi (Nébih) on Antibiotic resistance of bacteria isolated from poultry.

Friday morning's presentations were case studies of Reovirus viral arthritis and CAV and Reo co-infection. The first presentation was given by Tímea Tatár-Kis and the second by Edith Kovács Walkóné.

The presentations were the works of the Ceva Laboratory staff.

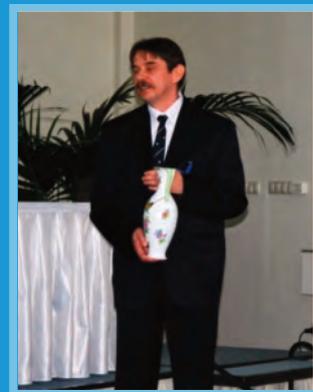
Gerda Pállai (Nébih) presented the Results of salmonella eradication / thinning and Attila Csorbai (Poultry Production Board) finished the program with the presentation of the competition and competitors.

Dr László Kőrösi

Corresponding secretary of WVPA Hungary



Prof. János Meszáros
greeting Mihály Dobos
Kovács



Csaba Nemes with the
Derzsy Award

Jordan



In an official and large public ceremony under the patronage of His Excellency Dr Akef Al Zoubi (Minister of Agriculture, Jordan), the Jordanian Branch of the WVPA was announced in Amman, Jordan. All public and private sectors dealing with all aspects of the Jordanian poultry industry, Public Health and

Food Safety and local offices of international organisations were invited. This event was covered by local media.

The JVPA president's (Dr Al-Natour) speech included a definition and goals of JVPA and invited all related organisations to cooperate with JVPA in order to help the Jordanian poultry industry to produce healthy meat and table eggs for consumers (from farm to fork).

He also added that JVPA can design workshops for training people working in all aspects of poultry in order to have good quality products and thus decrease losses related to poultry management at farm level.

JVMA-President (Dr N. Loubani) introduced JVPA as the first specialised veterinary association for poultry veterinarians in Jordan. He acknowledged the efforts of all JVPA colleagues especially Dr Al-Natour and he congratulated all members for being a branch of the WVPA. He also added that JVPA will get all possible support from JVMA.

The Minister of Agriculture (Dr Akef Al-Zoubi) congratulated the launch of the JVPA at this important conference and he called all related agencies to cooperate with each other for the benefits of the poultry industry and consumers.

At the end of the ceremony JVPA announced Award Certificates for poultry veterinarians who have served the poultry industry for 30 years or more. Dr Al-Natour (JVPA-President) requested Dr Akef Al-Zoubi (Minister of Agriculture) to distribute the certificates for JVPA colleagues.

The JVPA Scientific program included two hours on avian influenza and a one hour discussion.

The first lecture was given by Dr M. Q Al-Natour, entitled Influenza viruses in birds and humans. The second lecture was given by

Dr N. M. Ammarin, entitled Avian influenza control in poultry farms. Dr Waleed Al-Saleh was Mediator.

Mohammad Q. Al-Natour
Corresponding Secretary of WVPA Jordan

Israel

The 49th Annual Convention was held in the Ramada Hotel Jerusalem in March 2014. Most WVPA members attended the conference.

This is a meeting of farmers, scientists, veterinarians and those from the pharmaceutical industry, etc.

Dr Alfonso Claudio and Dr Kirk C. Klasing from the USA were most welcomed overseas guests. The subjects concerning poultry health, disease prevention and new findings are always of great interest to the audience.

Several topics were presented:

- **The Evolutionary History of Avian influenza H9N2 in Israel during the years 2000-2012.**

I. Davidson and researchers from ISZV, Italy-Giovani Cattoli presented the AIV H9N2 revolutionary history phylodynamics, by analysing 123 Israeli and 180 international AIV H9N2 HA sequences. The study evidenced the five introduction groups origin as I, II and III in the Far East, introduction IV linked to H9N2 Egypt, Jordan and Lebanon strains, while Israeli group V viruses linked to Saudi Arabia and other Persian Gulf country viruses. The dynamic phylogenetic also revealed the molecular evolution rate, the virus molecular clock and the genetic diversity skyline plot. The study was published in *Virus Genes* 457-463 2014.

- **Is there vertical transmission of NDV?**

The presence of velogenic NDV in all segments of the reproductive tract at vaccinated broiler breeders 26 weeks old, using qReal time RT PCR. This method permitted the detection of small amounts of virus that would not kill the embryo. This finding may suggest that the virus can be transferred with the embryonated egg in the process of laying and then be spread with the hatched chicks (Ruth Hadas).

- **The meaning of transmitting ND virus from urban wild birds to chickens.**

The objective of the research was to determine the significance of virus infection in poultry originating from urban wild birds,

The opening ceremony of the Jordanian Veterinary Poultry Association



From left to right: Dr Al-Natour (JVPA President), Dr Refaey (MoA), His Excellency Dr Al-Zoubi (Minister of Agriculture), and Dr Loubani (JVMA President)

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like pigeons and raptors, occasionally entering poultry premises. The question was whether the virulent virus in the wild birds will also keep the virulence in chickens.

The conclusion is that the pigeon strain of ND virus will not risk chickens in the first infection cycles, while findings of additional inoculation cycles will complete the picture. In comparison, NDV from raptors causes severe disease in chickens already in the first infection cycle (A. Lublin).

● Summary of 20 years of salmonella vaccination in poultry breeder flocks in Israel.

1994 was the beginning of a monitoring and control program in breeder flocks. The program included periodic sampling of chickens, swabs, environment improvements and biosecurity. Vaccination was introduced in to breeder flocks in 1994 against *Salmonella typhimurium* and in 1999 against *Salmonella enteritidis*.

In 2011 a great number of *Salmonella infantis* was isolated from humans, which was the reason to start *S. infantis* vaccination in breeder flocks. A significant decrease in the number of the infected breeder flocks by the three serotypes of salmonella was revealed as a result of vaccination (E. Berman).

Dr R. Rachel Bock

Corresponding secretary of WVPA Israel

Macedonia

In the last year four outbreaks of IBDV have occurred in Macedonia. Three of them were in backyard poultry and one was detected on a commercial pullet farm. All three outbreaks in backyard poultry are situated in the villages belonging to a single epidemiological unit and in proximity to the parent stock farm and hatchery which have not reported any signs associated to IBDV. Sequencing demonstrated that all of the isolates were very virulent IBDVs.

Infectious bronchitis is a constant threat to the poultry industry. It has been detected in farms which have undergone a full vaccination schedule. The majority of the farms are only vaccinating with H-120. After detection of nephropathogenic QX in several farms from 2011 onwards, farms are slowly shifting towards heterologous vaccination with the addition of 4/91 strain.

On the production note it is worth saying that the Macedonian poultry market is heavily dependent on broiler meat imports reaching up to 95% of the domestic needs. Several attempts to establish a viable domestic producer have failed and the possible reasons are lack of integration in the business, reliance on import of feedstuff and consumer awareness.

Prof. Dr Aleksandar Dodovski

Corresponding Secretary of WVPA Macedonia

Sweden

A course in poultry pathology was held in June, 2014 at the National Veterinary Institute (SVA) in Uppsala, Sweden.

The lectures, which covered areas such as principles of disease diagnoses, avian anatomy, avian inflammation and poultry pathology based on aetiologies as well as on pathological organ changes and symptoms, were given by Professor Shivaprasad from the University of California, Davis, USA.

There were approximately 20 course participants with different backgrounds in poultry, coming from the National Food Agency, private poultry companies, laboratories performing necropsies and clinical practice. The Swedish branch of WVPA would like to thank Professor Shivaprasad for coming and sharing his knowledge.

Helena Eriksson

Corresponding Secretary of WVPA Sweden





2nd WVPA Asia Meeting

Testing & Monitoring

Asia's leading technical conference for poultry veterinarians and poultry health scientists



Come to Bangkok for the 2nd WVPA Asia Meeting

Bangkok, Thailand is the venue for the 2nd WVPA Asia Meeting as it is central to the region, is well served by a variety of airlines, has a range of accommodation types and has an active branch of the WVPA that is keen to be involved in the event.

The first meeting was held in 2012 and attracted over 140 attendees, even though 80-100 had been budgeted for! The 2012 meeting comprised technical presentations from the four commercial companies who supported the event and very positive feedback was received.

As a result of this success, it was decided to hold the 2nd WVPA Asia Meeting over two days – one day for technical papers from

2nd Asian Avian Pathology Lecture

The 2nd Asian Avian Pathology Lecture will be presented by Prof. Dr. Md. Rafiqul Islam, DVM, MSc (VetSc), PhD, AvH Fellow, Department of Pathology, Faculty of Veterinary Science, Bangladesh Agricultural University, Bangladesh and will be on the topic of:

Infectious bursal disease: prophylaxis, detection & monitoring

This lecture is supported by the Houghton Trust and will be introduced by their chairman, Prof. Richard Jones.

DAY 1	Thursday 11 th September 2014
7:30	Registration Opens
8:50	Opening Ceremony
9:00	Key aspects to be considered on the monitoring and testing of flocks vaccinated with rHVT-ND - <i>Roberto Soares, Ceva, Malaysia</i>
9:30	Vaccination and monitoring of breeder flocks is essential for an effective control of chicken infectious anaemia - <i>Haraldo Toro, Auburn University, USA</i>
10:00	An integrated approach of serologic and molecular diagnostics for the control of <i>Mycoplasma gallisepticum</i> and <i>Mycoplasma synoviae</i> - <i>Pablo Lopez, IDEXX, USA</i>
10:30	Break
11:00	Anticoccidial sensitivity test (AST): An effective tool when designing anticoccidial programs for optimising broiler performance - <i>Chavalit Piriyaenjawat, Zoetis, Thailand</i>
11:30	Update on the practical use of PCR tools for poultry disease diagnostics - <i>Stephane Lemiére, Merial, France</i>
12:00	Lunch
1:15	2nd Asian Avian Pathology Lecture (Introduced by Prof. Richard Jones, Chairman of the Houghton Trust) "Infectious bursal disease: prophylaxis, detection and monitoring" <i>Prof. Dr. Md. Rafiqul Islam, DVM, MSc (VetSc), PhD, AvH Fellow, Department of Pathology, Faculty of Veterinary Science, Bangladesh Agricultural University, Bangladesh</i>
2:00	Monitoring Gumboro vaccines take - field and laboratory approach - <i>Roberto Soares, Ceva, Malaysia</i>
2:30	Monitoring of broiler intestinal health to improve performance - <i>Koen de Gussem, Huvepharma, Belgium</i>
3:00	Serology applied to preventive avian medicine - <i>Pablo Lopez, IDEXX, USA</i>
3:30	Break
4:00	Testing and monitoring of mycotoxins in poultry - breakthroughs of a new era - <i>Randy L. Payawal, Biomim, Philippines</i>
4:30	Comparative performance of commercial <i>Mycoplasma gallisepticum</i> and <i>M. synoviae</i> antibody ELISA kits and haemagglutination inhibition - <i>Dan T. Domingo, Zoetis, USA</i>
5:00	Diseases of domestic ducks: diagnosis and control - <i>Thaweesak Songserm, Kasetsart University, Thailand</i>
5:30	Vaccination in broilers as a tool for integrated coccidiosis control - <i>Koen de Gussem, Huvepharma, Belgium</i>
6:00 – 7:00	Cocktail Reception

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Silver Supporters





kok in September WVPA Asia Meeting

commercial supporters and the other day for submitted papers from the region. The number of commercial supporters doubled and there was an excellent response to the request for papers from the region, as can be seen from the programme which is on this double page spread.

Two financial support packages have been offered to each WVPA Branch in the region to assist younger or financially restricted delegates to attend the meeting. These packages include free registration to the event plus \$US250 to help with travel and accommodation costs – a total value of \$449 each. The responsibility for choosing the recipients has been delegated to Branch Officers.

Registrations are already starting to come in for the 2014 Meeting and it is very pleasing to see that enquiries have been received from Europe and America! Once again this meeting will be hosting the prestigious Asian Avian Pathology Lecture (see inset).

Also occurring will be the presentation of the WVPA-Zoetis Young Poultry Veterinarian Award. Previous winners have come from North America and Europe. It will be interesting to see whether this year's winner comes from a different continent!

The 2nd WVPA Asia Meeting has an excellent programme and we are looking forward to a strong turnout – will you be there?

WVPA would like to record its thanks to the various companies who are supporting the 2nd WVPA Asia Meeting.

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DAY 2	Friday 12th September 2014
8:45	Potent probiotics isolated from organic layer and native chicken faeces - <i>Niwat Chansiripornchai, Chulalongkorn University, Thailand</i>
9:00	Monitoring viral pathogens in poultry dust - <i>Stephen Walkden-Brown, University of New England, Australia</i>
9:15	Monitoring of fowl adenoviruses using environmental samples - <i>Robin R. Achari, University of New England, Australia</i>
9:30	Methods to detect viable viral pathogens in poultry litter and implications for disease monitoring - <i>AFM Fakhru Islam, University of New England, Australia</i>
9:45	Immunopathological effects of Ochratoxin A in broiler chicks and its amelioration with Baker's Yeast - <i>M. Kashif Saleemi, University of Agriculture Faisalabad, Pakistan</i>
10:00	Infectious bursal disease virus influences the transcription of chicken γ c and γ c family cytokines during infection - <i>Yongping Wu, Zhejiang A&F University, China</i>
10:15	Break
10:45	Age, flock size, vaccines, biosecurity and seasonal effect on ND antibody level after vaccination in layers - <i>Md Jalal Uddin Sarder, University of Rajshahi, Bangladesh</i>
11:00	Characterization of novel nanoparticle based vaccine for avian influenza - <i>Mazhar Khan, University of Connecticut, USA</i>
11:15	Ultrasensitive electrochemical immunoassay for avian influenza subtype H5 using nanocomposite - <i>Jiaoling Huang, Guangxi Veterinary Research Institute, China.</i>
11:30	Determination of shedding profile of infectious bursal disease virus in faeces of infected SPF chickens and association with levels in host tissues, dust and litter - <i>J.M.K.G.K. Jayasundara, University of New England, Australia</i>
11:45	Prevalence of colibacillosis in chickens in greater Mymensingh district in Bangladesh - <i>Minara Khatun, Bangladesh Agricultural University, Bangladesh</i>
12:00	Lunch
1:00	Immunoreactivity of nonstructural protein 5 of infectious bronchitis virus - <i>Min Liao, Zhejiang University, China</i>
1:15	Detection and isolation of H7N9 avian influenza virus and its prevalence in Eastern China - <i>Yang Yu, Zhejiang University, China</i>
1:30	Detection of genotype VII Newcastle disease virus using TaqMan real-time PCR for diagnosis and vaccine efficacy - <i>Sheau Wei Tan, Universiti Putra Malaysia, Malaysia</i>
1:45	Diversity of methicillin resistant Staphylococcus aureus isolated from chickens - <i>Zunita Zakaria, Universiti Putra Malaysia, Malaysia</i>
2:00	Autophagy protects against infection of infectious bursal disease virus - <i>Jiyong Zhou, Zhejiang University, China.</i>
2:00	Detection of emerging Campylobacter species in broiler chickens - <i>Saleha Abdul Aziz, Universiti Putra Malaysia, Malaysia</i>
2:30	Break
3:00	WVPA Matters - <i>Nigel Horrox, Vice President WVPA</i>
3:15	Prevalence, characteristics and antibiogram study of salmonella isolated from poultry and poultry environment - <i>Ariful Islam, Bangladesh Agricultural University, Bangladesh</i>
3:30	Assessment of Infectious laryngotracheitis virus excretion from commercial chickens by qPCR - <i>Parimal Roy, Tamilnadu Veterinary and Animal Sciences University, India</i>
3:45	Occurrence of variant infectious bronchitis virus (QX-like and 793/B strain) in Peninsular Malaysia - <i>Dr David Choe, Asia-Pacific Special Nutrients Sdn., Malaysia</i>
4:00	Expression and polyclonal antibody preparation of chicken UBC9 - <i>Jia Lu, Zhejiang University, China</i>
4:15	Development of indirect ELISA and autogenous vaccine for control Inclusion body hepatitis in chickens - <i>Thaweesak Songserm, Kasetsart University, Thailand</i>
4:30	Close

In and around Cape Town



Looking over the Waterfront to Table Mountain



Seals frequent the Waterfront



Three political greats of the 'new' South Africa



The Waterfront Eye



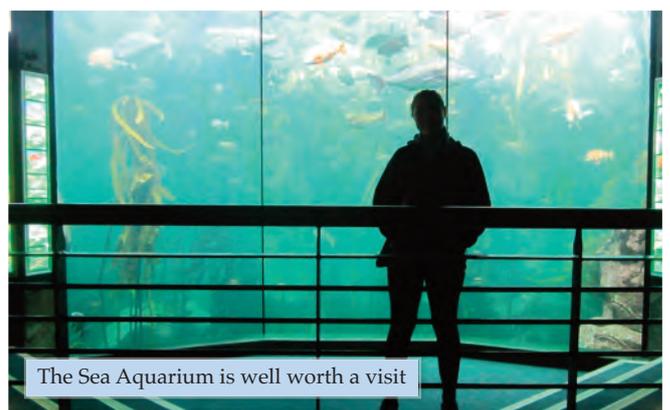
A good way to see around Cape Town



The easy way up Table Mountain!



Wildlife on Table Mountain



The Sea Aquarium is well worth a visit

WVPA Congress 2015

7-11th September

The 19th World Veterinary Poultry Association Congress will be hosted by the South African Branch of the WVPA in Cape Town, South Africa from 7-11th September 2015.

To kick off the home run towards the congress in 2015, a site visit was recently arranged for the Local Organising Committee in Cape Town and they were joined by Nigel Horrox, François-Xavier Le Gros, Executive Officers of the WVPA, and Prof Richard Jones.

Everyone was able to experience various options for pre-and post-congress tours, as well as accompanying persons' programmes in and around Cape Town.

The Cape Town International Conference Centre, the venue for the congress, was visited as were some hotels close to the Congress venue. There was a positive feedback on all aspects of the host city and congress venue.

In particular, they were impressed with the Cape Town Waterfront, which is just a 10 minute walk away from the Congress Centre, and its impressive range of quality restaurants and bars!

The official launch of WVPA 2015 sponsorship/support opportunities took place on 10th June 2014 during AVI Africa at the Emperor's Palace in Johannesburg. This event was also attended by the international guests and representatives of potential sponsors and exhibitors.

Much good discussion and work went into the draft scientific programme with the visiting WVPA representatives and the results are currently being reviewed by the 15 members of the Scientific Committee.

The facility for submission of abstracts for presentations and posters will open on the WVPA Congress website on 1st September 2014 and will close on 15th January 2015. Please submit an abstract and submit it early!

The scientific programme will concentrate on various avian diseases and will include the latest scientific advances with information and interpretations relevant to those working in the field both internationally and locally.

There will be at least a dozen different themes, each preceded by a keynote lecture, presented by an authority in the field. An interesting feature of the programme will be a session dedicated to diseases of ratites.



Penguin watch at the Boulders

Once again the Congress will host the Avian Pathology Lecture and the presentations of the Bart Rispens Award (supported by MSD) and the 2015 WVPA-Zoetis Young Poultry Veterinarian Award.

"We are on schedule for WVPAC2015," local organiser Dr Hannes Swart told Aerosols, "and we look forward to our poultry colleagues from around the world joining us for a congress to remember. They will also be able to experience African culture, wildlife, cuisine and wines first hand at a time of the year when international flights and accommodation charges in South Africa are both very reasonable."

**Local Organising Committee,
WVPAC 2015**

Global Officers with members of the South African LOC at the Cape Town Waterfront



New Iraq branch of WVPA

A new WVPA branch has recently been created in Iraq with 37 members under the leadership of Dr Yasser Jamal Jameel. The Iraqi Branch has provisional membership until it receives official approval in 2015 at the Cape Town Congress.

This group already has activities in education in veterinary science and the organisation of local symposia across Iraq in cooperation with veterinary colleges, veterinary clinics and poultry companies. For example, they provide educational trips for veterinary students to poultry farms, hatcheries and feed manufacturers so they can see poultry systems and management.

Dr Yasser works in the field of poultry hygiene at the Veterinary College of the University of Karbala. He is a veterinarian and holds a PhD from Baghdad University.

Dr Yasser has also been the President of the WPSA branch in Iraq since 2013 and head of the Veterinary Syndicate in Karbala.

WVPA Europe Meeting

The first WVPA Europe Meeting was held on 21st May at VIV Europe in Utrecht, Holland. The chairman for the afternoon was Vice President Prof Hafez Hafez and the subject of the meeting was 'Emerging Avian Health Threats'.

Following the chairman's opening address, the first presentation was given by Professor Richard Jones from the UK on the threat to

Europe of African and Middle Eastern strains of IB. He was followed by Professor Dr Timm Harder from the OIE-FAO Reference Laboratory for Avian Influenza in Germany who considered recent developments in our understanding of avian influenza and he reviewed the avian influenza threat(s) to Europe. Prof. Paul Barrow of the University of Nottingham in the UK then considered food safety threats including salmonella and campylobacter. The afternoon was rounded off by Paul McMullin from Poultry Health Services in the UK who spoke on the potential threats associated with antibiotic resistance.

In his closing comments, Vice President Nigel Horrox thanked the speakers, Professor Hafez for being an excellent chairman, and VNU Exhibitions for covering the costs of the meeting for WVPA.

Members can download copies of the presentations from the WVPA website (www.wvpa.net).

VIV Oeuvre Award

At the recent VIV Europe, a leading poultry / livestock event and international show, vice president Nigel Horrox, received a special VIV Oeuvre Award in recognition of his contribution to the international development of the poultry sector.

Nigel has worked with poultry since graduating in veterinary medicine from the University of Edinburgh in 1976. In addition to his expertise in poultry health, food safety and microbiology, Nigel worked widely as a poultry veterinarian in the UK until a decade or so ago and he has been a consultant to poultry companies in Asia and Africa.

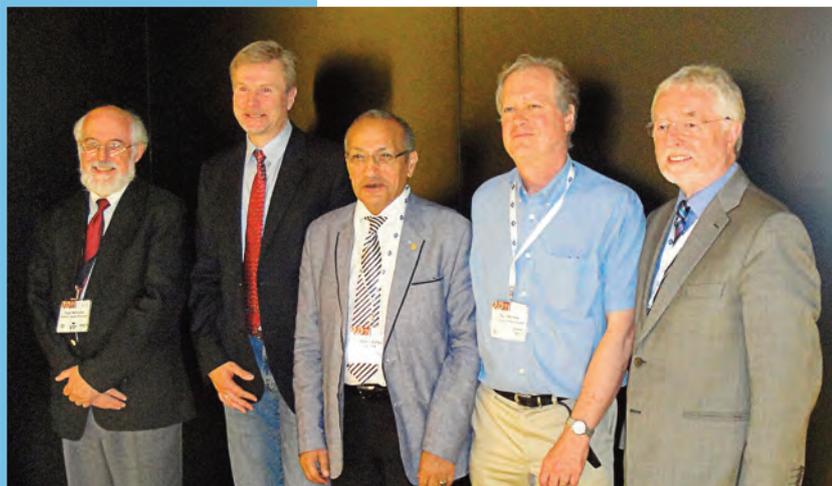
He is vice president of WVPA and he owns and runs Positive Action Publications Ltd, the company which publishes, among its titles, International Hatchery Practice and International Poultry Production.

The 10th 'Hafez' International Symposium on Turkey Diseases

was recently held at The Institute of Poultry Diseases at the Free University in Berlin, Germany and was organised by the German branch of the WVPA.

A full report of this meeting will be published in the next issue of Aerosols.

Pictured left to right are Paul McMullin, Timm Harder, Hafez Hafez (chairman for the meeting), Paul Barrow and Richard Jones.



Training course in Pakistan

A two day training course entitled 'Diagnosis of Poultry Diseases through Modern Diagnostic Techniques' was organised by the Pakistan branch of the World Veterinary Poultry Association in collaboration with the Diagnostic Laboratory, Department of Pathology, University of Agriculture Faisalabad in April.

Different veterinary schools, poultry research institutes, diagnostic laboratories, private poultry companies, poultry breeding companies, extension poultry veterinarians attended this important training course. Overall, more than 150 professionals attended the technical sessions.

This training course was jointly sponsored by Ghazi Brothers Pakistan and Intervet, Pakistan. Both technical, inaugural and concluding sessions were held at the Faculty of Veterinary Science, University of Agriculture Faisalabad (UAF). Both training sessions were arranged in the Diagnostic Laboratory, Department of Pathology, UAF.

These training sessions provided an opportunity to the participants for hands on training. All the participants took part in the practical training which included titer monitoring through HA-HI, ELISA and PCR and also necropsy examination. Renowned poultry health professionals from different national organisations were invited speakers.

The laboratory training was provided by the teaching staff of the Department of Pathology. The different topics covered during technical sessions included Newcastle disease, chicken infectious anaemia, mycotoxins, IB-variants, avian lymphoid leucosis and serological monitoring of poultry flocks etc.

The participants were also provided with an opportunity to freely interact with the speakers/experts and to discuss with them

the problems they face. On the first day of the training course the first annual meeting of the WVPA Pakistan branch was also organised with more than 50 national branch members attending. The meeting was coordinated by Dr Muhammad Kashif Saleemi, National Branch Secretary of WVPA Pakistan and was presided over by Dr Hanif Nazir Ch.

The president, Dr M. Kashif Saleemi, presented the successful story of the creation of the WVPA Pakistan branch. At the start of the meeting, one minute's silence was observed in honour of the late Prof. Dr Trevor Bagust (President of WVPA). His commitment and services rendered to the poultry/veterinary profession in general and to the WVPA were noted. All the branch members recorded their condolences on the sad demise of Prof. Bagust.

Dr Kashif told members that Dr Bagust, Prof. Hafez, Dr Xavier Le Gros and Nigel Horrox extended their cooperation for making the Pakistan Branch of WVPA active.

In the concluding session of the meeting Dr Hanif Nazir Ch. (President) put on record the efforts of Dr Kashif for organising the branch and its activities.

He encouraged the members to make the branch active throughout the year. He also asked members to participate in the Asian meeting of the WVPA.

At the end a certificate of membership was distributed to the branch members by Dr Hanif Nazir in the company of Prof. Dr Ahrar Khan, founder member of WVPA Pakistan and Chairman of the Department of Pathology UAF (Chief Organiser of the training course).

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



Participants of the National Training Course on Diagnosis of Poultry Diseases through Modern Diagnostics Techniques held at the Faculty of Veterinary Science, UAF, organised by the Department of Pathology and WVPA, Pakistan

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Obituary

Bruce R. Charlton

Dr Charlton of Coulterville, CA, died on 26th May, 2014, following complications from surgery. He was 62. Dr Charlton was born in Loup City, NE, which is where he will be interred alongside his father, uncle and other relatives.

He was a Professor of Clinical Diagnostic Microbiology and Branch Laboratory Chief at the California Animal Health and Food Safety Laboratory System (CAHFS), Turlock Laboratory, School of Veterinary Medicine, University of California, Davis (UCD).

Following his honourable service in the US Army, Dr Charlton received his DVM from Colorado State University. He began his career as a Veterinary Medical Officer in the Sacramento laboratory of the Veterinary Laboratory Services, California Department of Food and Agriculture. When UCD assumed responsibility for the State's laboratory system, Dr Charlton transferred to the

CAHFS Turlock Laboratory. He was a diplomate of both the American College of Veterinary Microbiologists and the American College of Poultry Veterinarians.

He served on the Board of Directors of the American Association of Avian Pathologists (AAAP). Dr Charlton was one of the first persons to characterise *Ornithobacterium rhinotracheale*.

In addition, he developed molecular tests for the diagnosis of mycoplasma and salmonella. These tests allowed Dr Charlton to work closely with the California poultry industry. For this he was named Poultry Scientist of the Year by the Pacific Egg and Poultry Association in 2007.

He is an author of more than 50 publications in refereed journals, four book chapters and more than 80 abstracts. Notably, he was the editor in-charge of the 4th, 5th and 6th editions of AAAP's best-selling publication, the Avian Disease Manual.

Dr Charlton is survived by his wife, two sons, and three grandchildren.



Bruce R. Charlton

Houghton Trust travel grants

Houghton Trust travel grants are awarded to young scientists, aged up to 35, working on avian diseases.

They are awarded to assist such researchers in attending relevant scientific meetings or making short visits to appropriate laboratories in countries other than their own. Since funds are limited, it is unlikely that the full amount required can be offered, so applicants are encouraged to seek additional funding from other sources.

Judy Bettridge is a recent recipient of such an award. She obtained her veterinary degree at Liverpool University, UK. After a few years in general practice, she returned to Liverpool to take her Masters degree in veterinary infection and disease control and is now in the final stages of completing her PhD entitled 'Epidemiology and ecology of infectious diseases in Ethiopian village chickens'. Her doctorate was funded by a UK Research Council and the UK Government Department for International Development within a bigger project: Chicken Health for

Development. This is a collaboration between institutions in the UK and Ethiopia, investigating the socio-economics, genetics and disease constraints to village chicken production.

Dr J. K. A. Cook,
Secretary, The Houghton Trust Ltd,
Jane@hough.waitrose.com

www.houghtontrust.org.uk



Judy Bettridge
Recipient of the Houghton
Trust Travel Award



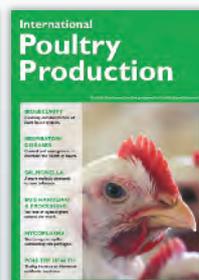
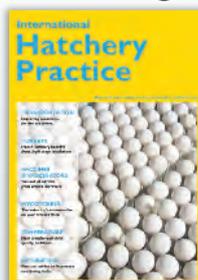
VIV Worldwide Calendar 2014 - 2018

VIV China 2014	September 23 - 25, 2014 Beijing, China
VIV Asia 2015	March 11 - 13, 2015 Bangkok, Thailand
VIV Russia 2015	May 19 - 21, 2015 Moscow, Russia
VIV Turkey 2015	June 11 - 13, 2015 Istanbul, Turkey
VIV Europe 2018	July 3 - 5, 2018 Utrecht, the Netherlands

 Strategic Partnership for the organization of WPC 2016 and VIV China 2016 in Beijing.

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Diary of meetings 2014-15

July

20-23 – **10th International Symposium on Marek's Disease and Avian Herpesviruses**
East Lansing, Michigan, USA
Website: www.cvm.msu.edu/alumni-friends/marek-symposium

27-29 – **American Veterinary Medical Association and American Association of Avian Pathologists**
Denver, Colorado, USA
Website: www.avma.org

September

11-12 – **2nd WVPA Asia Meeting**
Bangkok, Thailand
Website: www.wvpa.net

October

5-6 – **American College of Poultry Veterinarians (ACPV) Workshop**
Maryland, USA
Website: www.acpv.info

6-8 – **National meeting on Poultry Health, Processing and Live Production**
Maryland, USA
Website: www.dpichicken.org/events

November

7-10 – **17th National Conference of Chinese Association of Avian Pathologists**
Guangzhou City, China

11-14 – **EuroTier**
Hannover, Germany
Website: www.eurotier.com

January 2015

27-29 – **IPPE**
Atlanta, Georgia, USA
Website: www.ippexpo.com

March 2015

10 – **Incubation2015 & Avian Gut Health2015**
Bangkok, Thailand
Website: www.positiveaction.co.uk

11-13 – **VIV Asia**
Bangkok, Thailand
Website: www.viv.net

22-25 – **64th Western Poultry Disease Conference (WPDC) American College of Poultry Veterinarians (ACPV) Workshop**
California, USA
Website: www.conferences.ucdavis.edu/wpdc

July 2015

10-14 – **American Veterinary Medical Association and American Association of Avian Pathologists**
Boston, Massachusetts, USA
Website: www.avma.org
www.aaap.info

September 2015

6-11 – **XIX Congress of the World Veterinary Poultry Association (WVPA)**
Cape Town, South Africa
Website: www.wvpa.net/congress.php

October 2015

12-14 – **National Meeting on Poultry Health, Processing and Live Production**
Maryland, USA
Website: www.dpichiken.org/events

Forward planning:

September 2017

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

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Please send your feedback to any of the three officers highlighted on page 20 using the emails cited there.

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*Interim branch status that will be proposed for ratification at the 2015 Congress

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