

Aerosols

Newsletter of the World
Veterinary Poultry Association



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Visit: www.wvpa.net

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

Reflections

Having spent all last summer in hospital, including eight weeks on intravenous drips of antibiotic and fluid therapy to counter a deep seated sepsis caused by a multi-resistant bacteria and then most of the autumn getting the strength back in my legs, I am pleased to say I am now back at work and picking up where I left off – although now as your senior vice president.

In my absence not much has changed at WVPA – we are still dynamic and there is still a lot to do if we are to be an association for all our members to be proud of.

There have been some problems in compiling this latest edition of Aerosols so today we are publishing the normal winter edition and in a month or so's time we will publish a special 'Bangkok' edition that will focus on the last global congress.

This is not the year for a major WVPA global congress, but there will still be two important meetings at which members from any continent will be most welcome – these are our Africa and Asia meetings. The former is in Marrakesh, Morocco and the latter is in Dhaka, Bangladesh. I look forward to seeing you there!

Nigel Horrox, Senior Vice President

Poultry contributes significantly to the livelihood of people and human nutrition. With the increasing intensification of poultry rearing in Asia, the industry is now facing challenges in assuring quality input, better management, prevention of diseases, combating AMR and ensuring food safety. In this context the Bangladesh Branch of the World Veterinary Poultry Association (WVPA) is going to organise WVPA Asia Meeting 2020 in Dhaka, Bangladesh during 17-18 October 2020. Leading researchers from the region and across the globe are expected to share scientific knowledge on improving the production of healthy birds.

Who should attend:

Poultry veterinarians, researchers, academicians, policy makers and other poultry industry stakeholders

Registration fee:

Early bird and oral presenters: US\$150

Regular: US\$ 200

Important deadlines:

Abstract submission: 01 January to 31 March 2020

Early bird registration: 01 March to 31 May 2020

Regular registration: 01 June to 30 September 2020

Abstract submission and registration guidelines will be published on the website www.wvpa-bb.net

Sponsorship:

We invite global poultry stakeholders to support WVPA Asia Meeting 2020 as sponsors. Each global sponsor would be expected to provide an international speaker in addition to financial contribution

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5th WVPA Asia Meeting

“Improving the production of healthy birds”

17-18 October 2020

**Hotel Radisson Blu
Dhaka, Bangladesh**



**World Veterinary
Poultry Association
Bangladesh Branch
(WVPA-BB)**



First local poultry veterinary congress for South Africa

A very successful congress was held by the South African branch of the WVPA at the Monate Game Lodge in Limpopo, South Africa from 13-5th November 2019.

Veterinary colleagues from all the Southern African Development Community (SADC) countries were invited to attend, with the aim of fostering collaboration in the region. The congress was well attended with just under 80 attendees.

The congress programme included presentations on several topics of importance to poultry health in the SADEC region. We were delighted to welcome our Brazilian colleague Dr Rafael Penha Filho who gave very well received talks on salmonella control and *Salmonella gallinarum*.

Other topics that were covered included nutrition, vector vaccine technology, welfare, interpretation of laboratory results, infectious bronchitis and avian influenza. Case studies, focusing on specific problems encountered on farm, were included to bring a practical aspect into the program. The case studies very popular as it allowed for interaction and shared learning.

The ongoing research in the field of poultry by local students was showcased and there was a prize for the best student presentation

which was won by Therese Stark who spoke on the topic 'Production of an infectious bursal disease immune complex using plant made monoclonal antibodies'.

All in all, it was a time to be with colleagues and share informal discussions and learn about industry challenges. The gala dinner was held in a natural cave formed 300,000 years ago, and the spectacular setting was very popular with all the attendees. We hope that this will be a regular event on the South African Poultry calendar.

It is also important to mention that we made use of funds generated by the WVPAC Congress in Cape Town in 2015 to assist with speaker costs and student sponsorships. Many thanks to the WVPA for making the 2019 Congress possible.

**Dr SPR Bisschop,
WVPA, South Africa**



Dr Rafael Penha Filho



(l-r) Dr Sean Wisdom, Dr Therese Stark, Dr Deryn Petty



Austria

Meetings of the Austrian poultry health sector commenced in April 2019 when the Association to promote Research in Poultry Science (VAG) organised its annual two-day meeting at Lake Neusiedl, a nature park close to Vienna.

This annual meeting started in 2011 and ever since then the number of participants has constantly increased bringing the facilities to the limit. Similar to previous years practitioners from the field contributed with case reports and an overall view on diseases in certain poultry species or geographic areas,

mainly neighbouring countries. This time, ILT, IBDV and peripheral neuropathy were of concern in layers and respiratory distress due to infections with IBV, TRT and ORT was reported in broilers.

A comprehensive health survey carried out in broilers kept with reduced stocking density in Austria described bacterial infections and locomotive disorders as predominant findings. Additionally, the importance of biosecurity to minimise the risk of avian influenza was highlighted. Various presentations focused on the link between poultry and public health, for example *Campylobacter jejuni*, *Salmonella infantis* and *Morganella morganii*. Monitoring antimicrobial use in German poultry flocks was presented and consequences of resistant bacteria and/or genes in the environment with special focus on manure and waste water were discussed.

A presentation on the importance of the feed texture and the introduction of organic duck production in Austria completed the diverse and interesting programme.

As a major event in 2019 the 4th International Symposium on

Parasite Infections in Poultry took place at the end of June at the University of Veterinary Medicine in Vienna. Similar to previous meetings it was again organised together with Prof. Fiona Tomley and Prof. Damer Blake from the Royal Veterinary College in London. A total of 140 participants from 23 countries representing academic institutions, the industry and poultry practitioners focused on Red Mite, *Eimeria* spp., *Histomonas meleagridis* and nematodes in the context of related diseases.

The mixture between keynotes, regular oral presentations, short oral poster presentations and posters was again well received and stimulated intensive discussions and exchange of information. It became obvious that such small meetings are an ideal habitat to link all different groups interested in the subject. Further information is available at: <https://www.vetmeduni.ac.at/de/international-symposium-parasite-infections-poultry/>

Following the recent appearance of *Salmonella infantis* in broiler flocks in certain European countries the Poultry Clinic at the University of Veterinary Medicine and the Austrian Poultry Health Service organised a half-day Mini-Symposium in Vienna dedicated to this subject. Eighty participants, mainly from neighbouring countries facing problems with *Salmonella infantis*, from governmental and academic institutions together with practitioners paved the way for a very successful meeting.

Following a keynote lecture on *Salmonella*-microbiota interaction by Ivan Rychlik from the National Research Institute, Brno, Czech Republic, representatives of the Italian, Hungarian and Austrian National reference laboratories presented data on the epidemiology of *Salmonella infantis* coupled with genetic analyses.

Strategies in the field were addressed by presentations focusing on practical aspects like hygiene on farms and the susceptibility of *Salmonella infantis* to disinfectants.

Overall, it was concluded that *Salmonella infantis* is somewhat different to other *Salmonella* spp. and substantial efforts are needed to eradicate this bacteria from farms but the lack of a successful strategy was very obvious.

**Prof. Dr Michael Hess,
WVPA, Austria**



Welcome at the 4th International Symposium on Parasite Infections in Poultry

Speakers and organisers at the mini-symposium on *Salmonella infantis*



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Canada

The Western Association of Poultry Veterinarians (WAPV) is the western group of the Canadian Association of Poultry Veterinarians (CAPV) and holds its meeting every year in October amidst the beautiful rocky mountains of Banff in Alberta.

The one-day meeting is an opportunity for poultry veterinarians from across Canada to meet and exchange opinions on various topics affecting poultry.

This year, the first morning session was devoted to several case reports that ranged from a company's experience dealing with animal activists, some challenges on routine avian influenza sampling and surveillance, water quality, cases of proventriculitis in Ontario broilers and false layer syndrome due to infectious bronchitis.

Additional discussions covered infectious laryngotracheitis virus next generation sequencing and its use in monitoring and diagnosis, Marek's disease and infectious bursal disease vaccination and the next generation vaccines, as well as the latest updates about antibiotic resistance and the possible challenges facing the further reduction of antibiotic use.

The meeting also gave an opportunity for graduate students from the University of Calgary to present short updates on their research work on coccidiosis control programmes, haemorrhagic enteritis, infectious laryngotracheitis and infectious bronchitis. Finally, veterinarians had an active discussion on the initiative of the broiler industry to eliminate the preventive use of Category 3 antibiotics like bacitracins, sulphonamides, tetracyclines, etc. Concerns were also raised about the lack of medications to control histomoniasis in turkeys.

During the annual general meeting, the current officers – Drs Neil Ambrose and Darko Mitevski – passed the torch to the incoming officers – Drs. Kathleen Long and Luke Nickel. The WAPV is a very active regional organisation that always participates, through the CAPV, on discussions on a national level on matters that affect bird health, industry initiatives and federal and provincial issues concerning poultry and human health.

**Drs. Teresa Cereno and Darko Mitevski,
WVPA, Canada**

France

The French branch of WVPA (GF-AMVA) organised its annual conference 'Actualités en pathologie aviaire' (current topics in avian pathology) on 11th September, just one week before the World Veterinary Poultry Congress in Bangkok.

This annual meeting takes place each year within the frame of SPACE, one of the major European agricultural fairs held in Rennes, Brittany (North-Western part of France). It is recognised by all French poultry professionals (veterinarians, technicians, poultry farmers and technical press) as a real opportunity to meet and discuss current topics in avian pathology.

In the absence of Sophie Le Bouquin (Anses, Ploufragan-Plouzané-Niort Laboratory), President of the GF-AMVA, Isabelle Kempf (Anses, Ploufragan-Plouzané-Niort Laboratory), secretary / treasurer of the GF-AMVA, introduced the four conferences given by poultry scientists and veterinarians in a well-attended conference room:

- 1. COLISEE project:** Control of avian colibacillosis: an epidemiological study in 80 farms and genetic profiles of *Escherichia coli* strains, by Rozenn Souillard, Sabine Delannoy, Isabelle Kempf (Anses) and Julie Puterflam (Itavi).
- 2. Water quality:** Strengths and suggested improvement of water quality management in poultry, by Catherine Belloc (INRA).



The annual conference of the French branch of WVPA



3. DISARM project: Management of antimicrobial resistance by implementation of multi-actor health programs and dissemination of beneficial strategies, by Nathalie Rousset (ITAVI).

4. Metabolic behaviour in poultry: contributions of serum biochemical analysis, by Emilie Mérigoux (Labovet conseil).

As every year, the conference was co-organised by the French branch of WVPA in partnership with 'Filières Avicoles', one of the major French technical journals dealing with every aspect of poultry production. As usual, Filières Avicoles sponsored an ever-appreciated buffet to conclude the session and the journal will publish the summaries of the conferences in its forthcoming issues.

**Isabelle Kempf
WVPA, France**

Italy

The LVII annual meeting of the Italian branch of WVPA was held in Forlì on 28th and 29th March 2019. The first session, entitled 'Health problems detected in the poultry sector in 2018: Sharing of clinical cases for a constant and continuous update', took place in the afternoon of March 28th. Twelve interesting clinical cases were presented, followed by participatory discussions with the delegates.

The presentations concerned both commercial and backyard poultry, touching on some of the main current problems in these sectors. Most cases have been devoted to bacterial diseases such as *Salmonella* spp. in starlings (*Sturnus vulgaris*), *Clostridium botulinum* in broilers, *Escherichia coli* O25 and O88 causing 'black proventriculitis', *Enterococcus cecorum* in lame birds, and multiple infections of *Riemerella anatipestifer* and *Ornithobacterium rhinotracheale*.

A presentation was dedicated to the histopathological analysis in a clinical case of respiratory distress allowed to diagnose the presence of a new herpesvirus at the tracheal level in episodes of mortality in the tragopan (a bird belonging to the Phasianidae family). This aetiological agent, although similar to the chicken laryngotracheitis virus, was not recognised by PCR amplification with the specific primers for the latter. For its identification, viral isolation and sequencing of its genome will be necessary.

On the morning of Friday, March 29th, foreign and Italian speakers took the stage to address the topic entitled 'Microbiota: Perspectives and Applications in Poultry Production Chains'. For the first time, this event was organised by the Italian branch of WVPA in combination with the Italian branch of WPSA.

The first speech by Dr Patrizia Brigidi of the University of Bologna entitled 'Microbiome-host: a complex transgenomic interaction' underlined the importance of the biomolecular techniques of metagenomics, first of all, the 'next-generation sequencing' in order to be able to determine the microbiota (living composition) intestinal of the chicken through the identification of its genome (microbiome).

With the presentation 'Current perspectives of the gastrointestinal tract of the chicken and its microbiome' Dr Daniel Borda Molina, of the University of Hohnheim in Germany, reiterated the importance of the stability of the intestinal microbiome of the population mainly developed by *Lactobacilli* and *Bifidobacteria* in order to reduce, by competitive exclusion, the proliferation of *Clostridium perfringens*.

An interesting field experience using a commercial product (in drinking water) that combines three probiotics (*Enterococcus faecium*, *Bifidobacterium animalis*, *Lactobacillus salivarius*) and a prebiotic (Fructooligosaccharide-FOS), was also presented by Dr Zoi Prentza of the University of Thessaly in Greece. The report was entitled 'Field experience in the use of a multi-species symbiotic on gut health and production parameters in broiler breeders and their offspring'.

At the end of the morning, Dr Daniel Petri of Biomin reiterated the concept of the possibility of modulating the intestinal microbiome and, consequently, health with diet and probiotics. It is necessary to prevent the translocation of bacteria through the intestinal mucosa into the bloodstream where they can reach districts such as the proximal growth plate of the femur, tibia and thoracic vertebrae. At this level, bacterial infection combined with mechanical stress phenomena (osteochondrosis) and rapid bone growth is capable of causing osteomyelitis and chondronecrosis.

**Dr Davide Giovanardi,
WVPA, Italy**

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Poultry Respiratory Diseases and their Prevention Symposium held in Macedonia

Macedonia

A symposium entitled 'Poultry Respiratory Diseases and Their Prevention' was held on 1st November 2019 jointly organised by the Faculty of Veterinary Medicine – Skopje and Macedonian branches of the World Veterinary Poultry Association (WVPA) and the World Poultry Scientific Association (WPSA).

The programme of the meeting consisted of the following lectures:

- Infection with avian metapneumovirus and prevention possibilities – Dr. Laszlo Koroszi, AgrAI Bt, Hungary.
- Epidemiological situation with infectious bronchitis virus in Macedonia – Prof. Dr Aleksandar Dodovski, Faculty of Veterinary Medicine – Skopje, Macedonia.
- Prevention of infections with Mycoplasma gallisepticum and Mycoplasma synoviae with live vaccines – Dr Laszlo Koroszi, AgrAI Bt, Hungary.
- Application of biosecurity measures on poultry farms – Miroslav Kjosevski, DVM, Faculty of Veterinary Medicine – Skopje, Macedonia.
- Activities of the Food and Veterinary Agency in respect of infectious poultry diseases – Blagojcho Tabakovski, DVM, Food and Veterinary Agency, Macedonia.

The event was attended by veterinarians, nutritionists and breeders working in the poultry sector as well as by the poultry farm managers. The meeting was an excellent opportunity to share scientific achievements with all stakeholders in the poultry industry and to enhance the cooperation between science and the industry.

Prof. Dr Aleksandar Dodovski
WVPA, Macedonia

Malaysia

WVPA Malaysia branch held its 6th Annual General Meeting and Seminar on 24th September 2019.

A total of 138 members attended the event which was at the Faculty of Veterinary Medicine, Universiti Putra Malaysia.

It was a whole day event with morning sessions filled with seminars and the annual general meeting in the afternoon. The theme of the seminar was 'Respiratory and Immunosuppressive Diseases: A Fatal Attraction'.

The seminar began with welcoming remarks from the President of WVPA Malaysia, Prof. Dr Abdul Rahman Omar followed by presentations by five speakers from the industry. The presenters were Dr Marcelo Paniago from Ceva Animal Health focusing on the control of Newcastle disease; Dr Ong

WVPA Malaysia President, Prof Dr Abdul Rahman Omar delivering his welcoming speech during the 6th Annual General Meeting of WVPA Malaysia Branch



6th Annual General Meeting of WVPA Malaysia Branch



Dr Marcelo Paniago, CEVA Animal Health talking about challenges and opportunities to better control Newcastle disease



Dr Stephane Lemier of Boehringer Ingelheim delivering his presentation on the latest technology in Marek's disease vaccine



Dr Khurram Shaf of Zoetis sharing his experience on challenges to control mycoplasma

Shyong Wey from HIPRA sharing his experience managing avian metapneumovirus in the field; Dr Khurram Shafi from Zoetis addressing the challenges in controlling mycoplasma; Dr Tan Ching Giap from MSD updating the H9N2 situation in Malaysia; and Dr Stephane Lemier from Boehringer Ingelheim sharing the latest technology on Marek's disease vaccination.

Prior to the World Veterinary Poultry Association Congress 2019 held in Bangkok on 16-21st September 2019, Malaysia branch of WVPA had prepared a bid document to host the 23rd World Veterinary Poultry Association Congress in 2023.

We attended the bureau meeting as a team and the presentation was carried out by our President, Prof Dr Abdul Rahman Omar. We are happy to announce that the 23rd World Veterinary Poultry Association Congress in 2023 will be held in Kuching, Borneo, Malaysia.

Sarawak, on the island of Borneo is the eastern part of Malaysia. Kuching is a major food destination for tourists and the main gateway for travellers visiting Sarawak and Borneo.

Sarawak was once famous for its fierce headhunting tradition (which is no longer practiced today) hundreds of years ago. Today, it is known as a place where business meets adventure. We hope to see everyone in Kuching in 2023!

**Dr Nik M. Faiz,
Secretary, WVPA, Malaysia**

Malaysia delegates ready for the bidding presentation to host WVPA Congress 2023



Portugal

The new Portuguese branch of the WVPA, the Portuguese Association of Poultry Science (APCA / Associação Portuguesa de Ciência Avícola) has already developed a considerable amount of scientific training events, in spite of its recent creation. After only three years, it has more than 150 associates, and promotes a biannual symposium and a practical workshop on alternate years, as well as an annual general meeting with all the associates each October.



In March 2019 a workshop on Poultry Management, with the presence of two investigators from AERES University of Applied Sciences, in Dronnten was presented to a limited number of associates.

Researcher Sanders Lourens shared his knowledge on incubation and the impact of the process on chick quality; on brooding and the recent knowledge and findings on the first hours of chicks' lives, and also on how to maximise the broiler chain performance.

To talk about laying hens and broiler breeders rearing and production, Dr Jasper Heerkens shared with the audience his huge experience on cage-free pullet rearing and production management techniques and the most recent innovations and trends in layer and breeder management.

The Association's president, Fernando Moreira DMV PhD, was also present in Bangkok in September for the formal presentation of the new branch to all the WVPA community.

In October, beside the usual subjects on the management of the Association, the general meeting also had some training available for the participants. This year nutrition was the subject chosen to be shared, and was conducted by the invited nutritionist Luis

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Ferreira, who communicated his experience with physical presentation of feed, animals and industry choices regarding their better comfort and performance.

The invited speaker Rita Silva gave the audience an insight into the feedstuff production process and the importance of laboratories and toxins on the quality of the final product.

The association is already preparing the II Symposium that will be held on 6-7th May 2020, with confirmed participation by well recognised names from poultry sciences: Mattia Cecchinato, Naola Fergunssen, Van Immersel, Rui Sereno and João Borges among others, to approach subjects on respiratory diseases, intestinal

integrity and brooding.

Dr Filipe Ribeiro,
WVPA, Portugal

Malaysia will host the 23rd WVPA Congress 2023 in Kuching, Borneo, Malaysia.

A large promotional graphic for the XXIIIrd WVPA Congress 2023. The background is a night-time aerial view of the Kuching skyline, featuring the illuminated Sarawak State Convention Centre and the Sarawak Bridge. In the top left corner, there is a logo for the XXIIIrd WVPA Congress, which includes a stylized chicken and the text 'XXIIIrd WVPA CONGRESS WORLD VETERINARY POULTRY ASSOCIATION KUCHING • MALAYSIA 2023'. The main text on the right side of the graphic reads: 'Malaysia bid to host XXIIIrd WVPA Congress 2023 18th to 22nd September Kuching, Sarawak'.

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