

Aerosols

Newsletter of the World
Veterinary Poultry Association



Editor – Nigel Horrox

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President's message

Greetings to all the members of the WVPA – now some 2,200 members strong across 40 national branches. Our mission in WVPA is to be 'linking poultry veterinary scientists worldwide' and these biannual editions of Aerosols help us all to stay in closer touch.

Our 17th WVPA Scientific Congress was held during August this year in Cancun, Mexico. It was a great success for all participants in each key area, namely, scientific, social and for our sponsors. As the new President of WVPA, it was my task to formally send thanks to the Organisers of the Cancun Congress, and especially to ANECA as Mexico's national branch of WVPA. I would like to share a part of my official letter with you...

"These WVPA Congresses, now with more than a thousand participants, are clearly a major undertaking in both logistics and professionalism. There is no doubt in my mind that the 17th Congress of the WVPA, held in Cancun, Mexico, will be ranked amongst the very best that the Executive and all of the members have been privileged to attend. You and your teams achieved a very well presented scientific program, and social events were uniformly excellent. It was also a great source of pleasure for us to see the genuine warmth and hospitality with which all of the people involved in the organisation of this Congress received and then looked after their guests from each of some 60 countries!"

The French national branch have already started working with the WVPA Executive towards the 2013 WVPA Congress in Nantes.

Your WVPA Executive (2011-2014) elected at the Cancun Congress is detailed in this issue and as part of our commitment to improve communications between WVPA's Executive and the membership we have introduced 'Briefings' which will be regularly sent out quarterly to all National Corresponding Secretaries for onwards communication to the Officers of their Branch. The first issue of Briefings was sent to all Branches in September and the next will be circulated at the beginning of January.

The Cancun Congress saw Prof Erhard Kaleta (Vice President and Past President) and Dr Ursula Heffels-Redmann (Secretary / Treasurer) both retiring from your Executive. On behalf of all of us, we warmly thank them for their sterling work for WVPA over many years.

In closing, on behalf of members of the Executive of WVPA, we hope you will find this edition of Aerosols both interesting and enjoyable. As this edition will be the last in 2011, can we all take this opportunity to personally send you and your loved ones best wishes for a merry and safe festive season and a Happy 2012!

Trevor Bagust
President of WVPA

Visit: www.wvpa.net

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

WVPC Cancun



ANECA were the perfect hosts for our Congress in Cancun in August and everyone enjoyed Mexican hospitality and a very interesting meeting. Top left, the podium party at the opening ceremony and, immediately below this, the incoming president Dr Trevor Bagust (left) from Australia is formally inducted and congratulated by his predecessor, Prof. Hafez Hafez. Below is due acknowledgement (it covered a whole wall!) of the many companies whose support was greatly appreciated by all. The Diamond Sponsors were Merial, MSD Animal Health, Ceva and Boehringer Ingelheim.



A combined effort! The team behind the Congress included the Mexican organising committee and the old and new WVPA Executives. In the centre front row are the past and current presidents of WVPA with retiring officers Ursula Heffels-Redmann and Erhard Kaleta to their right and Avian pathology's editor, Janet Bradbury, to their left. Immediately behind Trevor Bagust is the Mexican Co-ordinator of the Congress, Maritza Tamayo.



wvpc2011 – success in the sun!

Right, the new Executive Committee that was appointed in Mexico. Below, Trevor Bagust acknowledges the outstanding service given by Erhard Kaleta (retiring ex-president) and Ursula Heffels-Redmann (retiring Secretary Treasurer of many years' service) with a bottle of Mexican tequila. Both became Honorary Presidents of WVPA.



Left, Dr Erica Spackman is congratulated by the Chairman of the Houghton Trust, Prof. Dick Jones, for an excellent Houghton Lecture on new technologies in viral diagnostics and, right, Dr Anneke Feberwee receives the Bart Rispens Award for the best paper in Avian Pathology from Aris Malo of MSD Animal Health. Below right, your new president reflects on the challenges ahead!





PRESIDENT

Trevor Bagust

After his veterinary degree, Trevor completed his PhD in animal virology at the University of Queensland in 1970. His research projects included avian leukosis and reticuloendotheliosis, avian immunosuppressive viruses and infectious laryngotracheitis virus. He has authored more than 150 scientific publications.

He was Director of the Australia-China Poultry Projects (1988-1996), whose technology transfer (SPF and poultry diseases diagnosis), facilities design, and training of key Chinese laboratory personnel laid significant foundations for the subsequent development of China's modern intensive poultry industry.

In 1996 Trevor became a Senior Lecturer at the University of Melbourne, where he developed a Master of Veterinary Studies course for postgraduate veterinary specialisation in Avian Health-in-Production. He has been a central figure in establishing Avian Health Online. This program enables postgraduate education and competencies training of avian veterinarians by interactive distance education.



VICE PRESIDENT

Hafez M. Hafez

After gaining his veterinary and masters degree from Cairo University in 1975, Mohamed Hafez completed his Doctorate of Veterinary Medicine at the department of Poultry Diseases, Giessen University, Germany, in 1981. In 1994 he finished the Habilitation thesis at Munich University.

In 1997 he became the head of the Institute of Poultry Diseases at Free University, Berlin. He is an honorary Professor at the University of Hohenheim, Germany and at the University of Alexandria, Egypt. Prof. Hafez's career has focused on poultry diseases in general and respiratory and foodborne diseases, management and hygiene in particular.

He is a veterinary poultry specialist; veterinary microbiology specialist and veterinary animal hygiene specialist. Since 2008 he has been a Diplomate of European College of Poultry Veterinary Science and he is currently the president of the college. From 2007 until August 2011 he was the president of the WVPA and is currently the vice-president of the Association. He is a member of several national and international scientific committees related to veterinary medicine.



EDITOR AVIAN PATHOLOGY

Janet Bradbury

Janet Bradbury is Emeritus Professor at the University of Liverpool Veterinary School in the UK. She is also Editor-in-Chief of the Avian Pathology journal. Her main interests include mycoplasmas in birds, especially diagnosis; and she is currently running a diagnostic service.

Janet is a member and former Chair of the International Committee on Systematics and Taxonomy of the Mollicutes. She is also a member and former Chair of the International Research Programme on Comparative Mycoplasma Avian Team. Janet is an honorary Life member of the World Veterinary Poultry Association, the British Veterinary Poultry Association and the International Organization for Mycoplasma.

Janet has also become a beekeeper and now has two hives!

VIV Worldwide Calendar 2011 - 2014

VIV/ILDEX India 2012	February 22 - 24, 2012 Bangalore, India
VIV China 2012	September 23 - 25, 2012 Beijing, China
FIGAP/WV Mexico 2012	October 17 - 19, 2012 Guadalajara, Mexico
VIV Asia 2013	March 13 - 15, 2013 Bangkok, Thailand
VIV Russia 2013	May 28 - 30, 2013 Moscow, Russia
VIV Turkey 2013	June 13 - 15, 2013 Istanbul, Turkey
VIV Europe 2014	May 20 - 22, 2014 Utrecht, The Netherlands

VIV is the official Industry Development Sponsor of the 2011 World Poultry Congress Salvador, Bahia, Brazil August 5 - 8, 2011

www.viv.net

Executive committee



VICE PRESIDENT Nigel Horrox

Nigel graduated from the University of Edinburgh in Scotland in 1976 and since then has worked with poultry – firstly in a general veterinary practice and since 1980 on his own. Initially, he worked mainly with turkeys but then got more involved with chickens, having several of the UK's then major producers among his clients.

Since 1990, he has focused more on international work, mainly in Africa and Asia, and for many years was veterinary consultant to one of the world's largest duck companies with involvement from breeding through to the cooking plants. This work also involved a lot of technical training and over a 25 year spell he has trained more than 3,000 poultry personnel on management courses in South Africa.

Nigel has served BVPA in the UK for many years and was their president from 2005-2007. He joined WVPA's executive in 2009 and for the last two years was Editor of Aerosols.



EDITOR AEROSOLS Charles Hofacre

Charles (Chuck) Hofacre holds a BS in Agriculture, an MS in Poultry Science, and a Doctorate in Veterinary Medicine from The Ohio State University. He also has a Master of Avian Medicine and a PhD in Veterinary Medical Microbiology from The University of Georgia.

He has held the positions of Director of Veterinary Medicine at Cuddy Farms Inc; seven years as a Vice-President and member of the Board of Directors for Ross Breeders Inc; and he was the Manager of Technical Service for Bayer's poultry business in the US.

Currently, Chuck is a Professor in the Department of Population Health in the College of Veterinary Medicine at the University of Georgia and is the Director of Clinical Services for the Poultry Diagnostic and Research Center in Athens, Georgia. He has been the Secretary-Treasurer for the American Association of Avian Pathologists for eight years and is also a Diplomate of the American College of Poultry Veterinarians.

SECRETARY/TREASURER

Francois Xavier Le Gros



François-Xavier graduated from the National Veterinary School of Alfort (Paris-France) in 1980 and specialised in Veterinary Public Health in 1981.

He then followed microbiology/immunology courses at the Pasteur Institute and joined the National Laboratory for Avian Pathology (now ANSES-Ploufragan laboratory) where he specialised in poultry science.

In 1986 he joined the future Merial in Lyon, where he held various management positions related to avian vaccines (quality control, clinical analysis, project leader).

He is currently Director of Avian Biologics R&D projects in Merial Lyon-Gerland laboratory.

François-Xavier is also a board member of the French branch of the WVPA and Diplomate/board member of the European College of Poultry Veterinary Science.

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Austrian branch news

This year the annual meeting of the Austrian Branch took place at the University of Veterinary Medicine in Vienna (Vetmeduni Vienna), with the advantage of easy access to excellent lecture hall facilities.

The meeting took place on the 19th of May and was attended by members active in different areas of the poultry industry and academic institutions. The focus of the meeting covered various topics related to infectious diseases in poultry. The intention to also include practitioners as speakers talking about their own experience was once again kept and F. Sommer took up the duty this time with two presentations.

In one talk he concentrated on increased chick mortality in a broiler hatchery, reporting his experience during a residency he made some years ago in California.

In the second talk he described the progression of botulism in layers.

J. Lembeck from Pfizer Animal Health introduced a new IB vaccine based on the QX virus. This infection appeared first in 2006 in

layers in Austria but the problem has now shifted to broilers.

C. Hess presented a case report about the appearance of a poxvirus infection in turkeys which could be traced back to a nearby layer farm, indicating possible consequences of low biosecurity.

H. Schliessnig from the Austrian Health Service presented the latest information about salmonella legislation.

The meeting was closed by M. Hess who introduced a new project in which the Vetmeduni Vienna cooperates with the Georgikon Faculty of the Pannonian University in Hungary, in order to strengthen the Austrian/Hungarian poultry industry.

Once again the program contained a good combination between scientific work and practical information.

After the scientific session most of the participants made use of the traditional get together in a nearby restaurant.

Prof. Dr Michael Hess

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AAAP and PSA meet jointly in St. Louis

The American Association of Avian Pathologists and the Poultry Science Association combined their annual meetings for the first time this year at the AVMA Convention. The combined meeting offered unique educational opportunities for members of both organisations and the convenience of attending two meetings at once for those who are members of both organisations.

The Scientific Program was held at the Americas Center Convention Complex in downtown St. Louis, just blocks away from the famous Gateway Arch. Many other meetings and events were held at the Hyatt Regency St. Louis at the Arch Hotel and the Renaissance Grand Hotel.

The Annual Meeting was ½ day longer this year than in years past, beginning at 7:30am on Saturday, July 16th and ending at 5:00pm on Tuesday, July 19th. A joint AAAP/PSA symposium titled, 'A Crystal Ball Look into the Future of...' was presented on Saturday, July 16th at 7:30am. Some 674 titles were presented in the Scientific Program by the PSA and AAAP. There were 400 oral presentations and 274 posters. Of those, AAAP had 133 oral presentations and 49 posters.

This year the Lasher-Eckroade History / WPSA Lecture was given by Greg Mathis. It was titled, 'The History of the Poultry Industry: Scientific Breakthroughs'.

Reed Rumsey Award winners Kabel Robbins and Ha-jung Roh presented their papers, 'Genotypic and phenotypic comparison of field isolates *Enterococcus cecorum* in outbreaks of spondylitis' and 'Interactions between multivalent attenuated live infectious bronchitis virus (IBV) vaccines in one-day-old chickens' respectively.

The Richard B. Rimler award winner this year was Sachin Kumar. He presented his paper, 'Reverse genetic studies of avian paramyxovirus type-3'. The Schwartz Travel Scholarship winner, Daniel Wilson, presented a poster titled, 'Occurrence of the cutaneous trematode *Collyriclum faba* in an American robin (*Turdus migratorius*) located in the Midwestern United States' and Bret Rings received the Outstanding Field Case/Diagnostic Report Award for his presentation of, 'The toxicity effects of feeding 1-alpha hydroxyl D3 to broiler breeding hens'.

Many joint social events were held by the two organisations. There was an opening ses-

sion and reception held on Saturday, July 16th, an ice cream social on Sunday, July 17th and a wine and cheese reception in the poster room at the convention center on Monday, July 18th. AAAP held its annual Awards Luncheon on Sunday, July 17th and the annual Business Meeting Monday, July 18th.

AAAP approved a new mission statement to better reflect who we are and what we do as an association. The new mission statement reads: The American Association of Avian Pathologists promotes scientific knowledge to enhance the health, well being, and productivity of poultry to provide safe and abundant food for the world.

AAAP released a new publication entitled, A Practical Guide for Managing Risk in Poultry Production edited by Robert L. Owen with 26 contributing authors. The book, available in print, is 275 pages and is also available as an ebook (without chapter 7 on ventilation) by visiting: <http://www.aaap.info/biosecurity>

AAAP Board of Directors for 2011-2012 are: Patricia A. Dunn, President (2013), Mark C. Bland, President Elect (2014), Stewart J. Ritchie, Past President (2012), Charles L. Hofacre, Secretary-Treasurer, Robert E. Porter, Jr., Director at Large (2012), Daniel A. Bautista, Eastern Director (2013), Darko Mitevski, Western Director (2012), Francene Van Sambeek, Southern Director (2014), Eric N. Gingerich, Central Director (2015), Suzanne Young Dougherty, Director at Large (2013).

The 2012 Annual Meeting will be held August 4-7th in San Diego, California, USA in conjunction with the American Veterinary Medical Association's annual convention.

The Scientific Program will be held at the San Diego Convention Center. Saturday, August 4th marks the start of the AAAP Annual Meeting with a symposium titled, 'Enteric Disease in Poultry, Recent Advances in Characterisation, Diagnosis, and Control' and ends Tuesday, August 7th at 5:00pm.

Bob Bevans-Kerr, Executive Director



Dr Greg F. Mathis



Back row: E. Gingerich, R. Porter, Jr., M. Bland, P. Dunn

Front row: C. Hofacre, S. Young Dougherty, F. Van Sambeek

Missing: S. Ritchie, D. Bautista, D. Mitevski



19-23rd August 2013

Outcomes from Cancun

At the General Business meeting it was reported that new branches had been formed in Jordan and Thailand and that membership at the end of 2010 was 2,199 in some 56 countries, with just over half of this in Europe.

Financially WVPA had returned a small profit in each of the last two years. WVPA had financially supported 11 young scientists (from Bangladesh, Egypt, India, Jordan, Pakistan, Poland, South Africa and Venezuela) so that they could attend the Cancun Congress.

Dr Marco Rebollo from Mexico reported an attendance of 893 people from 61 countries at the Mexican Congress and that 285 papers and posters were presented.

The success of Aerosols over the last two years was noted and it was pleasing to note that Avian pathology, which is celebrating its 40th anniversary this year, is maintaining its very high ranking among veterinary science journals.

Dr Trevor Bagust from Australia became WVPA's present and his predecessor, Hafez Hafez from Germany, and Nigel Horrox, from

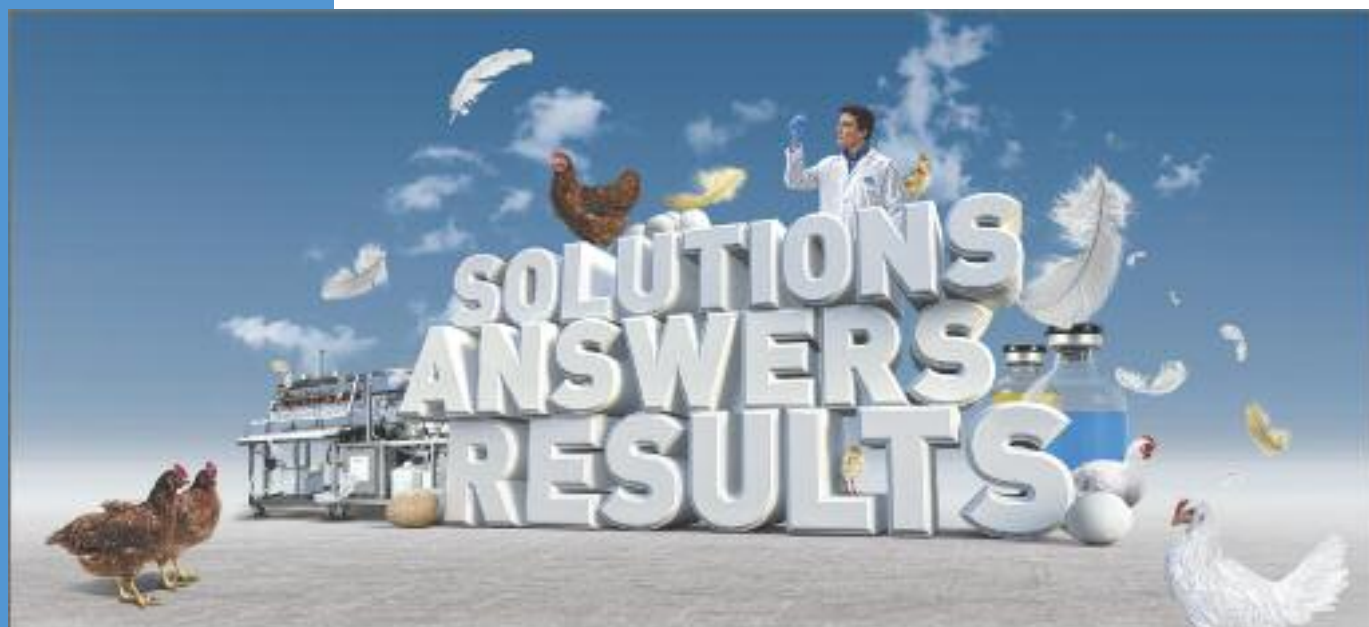
the UK, became vice presidents with Francois-Xavier Le Gros from France being elected in as the new secretary/treasurer.

This meeting saw Erhard Kaleta (vice president) and Ursula Heffels-Redmann retiring from the Executive. Both have given many years of excellent service to WVPA and were elected Honorary Life Members.

Prof Bruce Calnek and László Stipkovits were unanimously elected as Honorary Life Members in recognition of their long and valued service to poultry veterinary science and WVPA over many years.

Future congresses were confirmed at the Cancun Congress as:

- 2013 – Nantes, France (19-23rd August 2013)
- 2015 – Cape Town, South Africa (6-10th September 2015)



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WVPA Young Poultry Veterinarian of the Year

The World Veterinary Poultry Association (WVPA) has teamed up with Pfizer Animal Health Global Poultry to launch a new, global award for poultry veterinarians.

The WVPA Young Veterinarian of the Year 2012 award will be presented at Poultry Focus Asia in Bangkok, February 2012 and the 2013 award will be presented at the WVPA Congress in France the following year.

The winner will receive US\$ 5,000 towards travel and accommodation expenses for attending an international scientific/technical or continued professional education meeting of their choice.

The award is open to qualified veterinarians who are under the age of 35 on 31st December 2011 and will be judged by a panel of global experts. Dr Trevor Bagust, President of the WVPA, believes that the award will help to highlight the high standard of veterinary care that the poultry industry has access to.

"Maintaining excellent bird health and welfare is at the very heart of efficient poultry production and so veterinarians have a key role to play in successful poultry businesses.

"This new award will look for individuals who have the dedication, motivation and flexibility that modern poultry veterinarians must have in order to add value to the businesses they service.

"We are looking for individuals who go be-

yond best practice; individuals who are an integral and invaluable part of the businesses they support."

Dr Jose Linares, technical director, global marketing at Pfizer, agrees: "Poultry veterinarians play an essential role in the poultry industry and we are happy to support an award which acknowledges their valuable contribution to its success.

"We know from our own extensive dealings with poultry veterinarians in many countries around the world that there are a lot of very pro-active and innovative veterinarians supporting poultry producers. I'm expecting the standard of entries to be very high and I think the judges have a difficult job ahead of them.

"At Pfizer Animal Health Global Poultry we value customer service and support just as much as our wide range of quality, innovative products: the two go hand-in hand for any successful animal health company. The same applies to successful veterinarians."

Entries for the award can only be made via the dedicated website and veterinarians will be asked to describe why they believe they should win the award in no more than 500 words (www.wvpa-award.com).

The closing date for entries is 31st December 2011.



19-23rd August 2013

Naturally ahead



Feeding mycotoxins – treatment is uncertain

The question of possible interactions between mycotoxins and infectious disease agents has been important to animal husbandry and health ever since one of the first reports of aflatoxicosis (Siller and Ostler, 1961) described the isolation of salmonella from the internal organs of turkeys during field outbreaks of the disease.

Mycotoxins can be the primary agent causing acute health or production problems in poultry, but more likely, mycotoxins are a factor contributing to a higher incidence of disease, poor reproductive performance or suboptimal egg and meat production.

Recognition of the impact of mycotoxins on animal production has been limited by the difficulty of diagnosis. Symptoms are often non-specific and the result of a progression of effects, making a diagnosis difficult or impossible because of the complex clinical results with a wide diversity of symptoms.

The difficulty of diagnosis is increased due to limited research, occurrence of multiple mycotoxins, non-uniform distribution, interactions with other factors, carryover of mycotoxins into the eggs and problems of sampling and analysis. Symptoms of mycotoxicosis in poultry vary depending on the mycotoxins involved and their interactions with other stress factors as, for example, sub optimum farm management, poor feed quality and presence of infections at the farm.

The more stressed birds are most affected, perhaps because their immune systems are already suppressed. Poultry does not respond well to veterinary therapy, antibiotics have to be overdosed and used for a longer time, antiparasitics are not 100% effective.

As an example we can present the experiment on 184 one day old broiler chicks. These were divided into two groups and the effects of ochratoxin A on *Escherichia coli* challenged broiler chicks were evaluated (Kumar et al. 2003).

After 14 days receiving a diet containing 2mg/kg ochratoxin A, each group was further separated

into two groups: one was inoculated with *E. coli* O78, whereas the other group was not inoculated with *E. coli*. Mortality was 14.3% in chicks infected with *E. coli* but fed no ochratoxin A. Mortality increased to 35.7% in chicks fed ochratoxin A and infected with *E. coli*. In addition, the effects on decreased body weight were more pronounced in chicks fed ochratoxin A and infected with *E. coli*.

In another experiment by Boonchuvit et al. (1975) with a total of 400 birds, one half was fed a toxin-free diet and the other half received the same diet but with 16µg/g of T-2 toxin. At one week of age, one group of 10 birds fed each diet was inoculated orally with salmonella. A combination of *S. typhimurium* and T-2 toxin resulted in 17.5% mortality, while mortality in the group of birds fed a mycotoxin free diet but contaminated with salmonella was 0%.

The effect on environmental conditions on final effect of aflatoxins was investigated in experiments by Manning and Watt (1990).

Chicks acclimated to 10-12°C were more resistant to aflatoxins (8mg/kg) after 10 and 20 days than chicks acclimated to 28-30°C as the mortality in this group was much higher (90%) in comparison to the mortality in those broiler exposed to lower environmental temperature (20%).

A lot of investigations are performed in the field of nutrition, genetics and/or animal welfare to increase farm profitability. Nevertheless, birds frequently do not perform according to their capability due to mycotoxins and much of their economic loss stays unaccounted for. Often veterinarians might cure only secondary symptoms in the animals and not the main issue. Taking all this into account, great awareness must be given to the interaction of mycotoxins with other main factors.

A correct mycotoxin risk management is a key factor for reaching optimum performance in animal husbandry. ■

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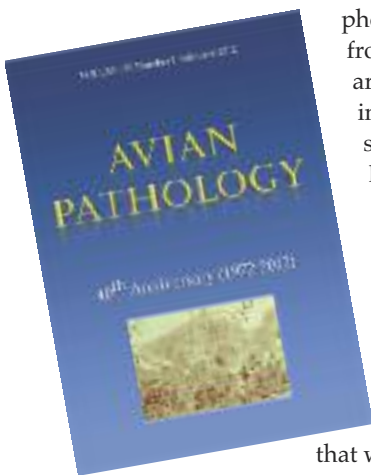
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From around the world

Avian Pathology

In 2012 Avian Pathology will be celebrating its 40th Anniversary with a new cover design and will feature a



photograph from a current article (as seen in the demonstration copy left).

There will also be a series of interesting articles on poultry disease topics

that were important 40 years ago and are still important today.

The first issue, to be published in February, will cover Marek's disease and avian leukosis and the authors are Peter Biggs, Jim Payne and Venugopal Nair.

WVPA members are also reminded that they can enjoy a reduced subscription rate for Avian Pathology, \$US100/year for six issues, hardcopy or online). This is excellent value, and members of WVPA who wish to subscribe are asked to include a membership certificate which can be obtained from the Corresponding Secretary of their national WVPA branch or in the absence of one, directly from the Secretary/Treasurer of WVPA (contact details in this newsletter).

Further subscription details can be obtained from: tf.enquiries@tfinforma.com or <http://www.tandf.co.uk/journals>

BVPA's summer meeting

The BVPA's summer meeting was held at the beautiful Ness Gardens on the Wirral Peninsula near Liverpool. Many people commented on the wonderful surroundings and the facilities. The meeting was the best attended summer meeting for some time, which was probably mainly due to the excellent programme put together by our meetings secretary, Kannan Gananpathy.

The programme was entitled 'Zoonoses and Respiratory Pathogens' and was a combination of reminiscences of the establishment

and early work of the Poultry Department at the University of Liverpool right up to the latest research currently being undertaken by some of the rising stars of the scientific community. The final paper was a look to the future of disease understanding and analysis.

Between the morning and afternoon sessions there was a wonderful lunch and an opportunity to walk through the magnificent gardens.

A very pleasant day was had by all.

New Jordanian branch

The Jordanian Branch of the World Veterinary poultry Association (JVPA) met in September 2011. Dr Al-Natour presented an update on WVPA's last meeting in Cancun and showed the audience three short videos on the Cancun Conference and the upcoming conferences in France and South Africa. He encouraged all members to participate in the next conferences of the WVPA.

At the meeting elections and nomination of officers also took place. Dr Al-Natour requested Dr Al-Loubani (President of JVPA) to supervise the elections.

In the election for the President Dr Al-Natour obtained 19 votes, while his opponent Dr Talal Nasar obtained 5 votes out of the 24 members who attended the meeting.

JVPA members nominated the following officers to form their bureau members for 2011-2014:

- Dr Mohammad Q. Al-Natour – President.
- Dr Husam Bakri – Vice-President.
- Dr Waleed Al-Saleh – General Secretary.
- Dr Taha Al-Abbadi – Secretary Treasurer.
- Dr Hisham M. Al-Maaitah – Member.
- Dr Abdulsalam Al-Masalmeh – Member.
- Dr Nadim M. Amarin – Member.
- Dr Ziad A. A. Al-Momani – Standby Member.
- Dr Suzan M. Abu-AlSheikh – Standby Member.
- Dr Sami J. Jawabreh – Standby Member.



Your officers would greatly appreciate any feedback on WVPA and its activities.

Please send your feedback to any of the four officers highlighted on page 12 using the emails cited there.

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