

D A N D E R

February 1994 Issue Number 51
Journal of the Australian Veterinary Poultry Association
HOUSE KEEPING
NOTICES



Pauli Gilchrist changes address
again: You might like to note
this: Address all AVPA
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Submissions on 3.5 inch discs in
Word for Windows or Word Perfect
Format can be used, as can fax.

The next issue of DANDER has
a deadline of Friday 22 nd
July, 1994.

.....
Australia makes its mark in
poultry again.....

February 27,28 and March 1 1994 will
herald the entrance of a number of
Australians to the 43rd Western Poultry
Disease Conference at Sacramento,
California, USA.

Bioproperties is sponsoring (and this
list is not in order of importance)
Dr Kevin Whithear, (Mycoplasma whizz
kid); Dr Peter Coloe (deletion gene
vivisectionist); Dr Peter Scott (hands on
vaccinologist); and Dr Pat Blackall (nasal
passage gooby pathologist).

The respective paper titles are:
a) Mycoplasmas and Management of Broiler
Breeders
b) Vaccination of Poultry with Salmonella
STM-1: Laboratory and field evaluations

c) Experiences with Live Attenuated Ms
vaccine
d) Progress towards a Live Infectious
Coryza Vaccine.

This intrepid team will be joined by
Clive Jackson (Websters Australia), who
it is rumoured has joined forces with
David Timworth to keep the speakers on
the straight and narrow and supply them
with an endless barrage of Macdonald
burgers and banana thickshakes until
released from their locked rooms moments
before they speak.

David Timworth reports: "A mycoplasma
workshop has been organised by the
conference and Select Laboratories (the
US licensee for TS-11) for Saturday 26th
February for 60 participants. This
workshop is already overbooked. Kevin
Whithear and Peter Scott are both
involved on the discussion panel for this
workshop. TS-11 is now on sale in the
USA and Select labs are also negotiating
with Bioproperties for the rights to
Vaxsafe Ms-H. The contract for this
should be signed by Select at the
Conference. They have already purchased
the rights to our new live coryza vaccine
and this is in lab tests in Georgia".
The 43rd Conference program covers a huge
range of topics which include:

- *Enzymes to improve performance
 - *Water soluble vitamin usage
 - *Coccidiosis control trends and concerns
 - *Diarrhoea and faecal colour
 - *Arenavirus
 - *Making chook medicine easier to cope
with as students
 - *Ostriches
 - *Adenoviruses in Turkeys
 - *Respiratory tract immunity
 - *Mg and Ms PCR diagnosis
 - *Mg and Ms eradication
 - *blood glucose in broilers
 - *Bordetella avium ELISA
 - *IBD and IB
 - *Antibiotics in Mareks Vaccine
 - *Newcastle vaccine
- (Note: KW owes GR dinner. Pers Comm 1994.

**Kevin Fahey receives
Dr Bart Rispens Award:**

At the 10th WPA Congress held in Sydney August 14-19 1993 it was announced that the 8th Dr Bart Rispens Memorial Award was awarded to Dr Kevin Fahey. The award was given to Dr Fahey for his paper entitled "A recombinant subunit vaccine that protects progeny chickens from infectious bursal disease" which was regarded by the Award Committee as the best research paper published in AVIAN PATHOLOGY in the previous two years. The award consisted of a medal, certificate and 2500 Dutch guilders.

That the award was given to Dr Kevin Fahey, an Australian, was a great honour acknowledging his outstanding contribution, as well as of those working with him, to research into avian diseases. Dr Fahey joined the CSIRO Division of Animal Health in Melbourne in 1976 and in 1980 he joined the Avian Diseases Programme of which he became manager in 1984. He worked on infectious laryngotracheitis, infectious bursal disease, coccidiosis, avian adenoviruses and the genetics of disease resistance in chickens. Dr Fahey's group was the first to show that VP2 is the major protective antigen of IBV. In collaboration with scientists from the CSIRO Division of Biomolecular Engineering the entire genome of IBV was then cloned and sequenced, another world first. This further enabled the VP2 antigen of IBV to be expressed in vitro resulting in the first recombinant subunit vaccine for an avian pathogen. This recombinantly expressed VP2 was shown to induce high levels of antibodies in breeder hens which also protected their progeny chicks against challenge with IBV. While manager of the Avian Diseases Programme Dr Fahey initiated projects into laryngotracheitis and fowl adeno viruses as vectors for delivery of antigens of importance to poultry and a project aiming to clone and study the biological activity of avian cytokines. This research is still in progress. Dr Fahey left CSIRO in 1991 to join Smith Kline Beecham animal Health in Lincoln, Nebraska, USA where he holds the position

of Vice President for Biological Research and Development. He is missed by many of his previous colleagues and associates. The Dr Bart Rispens Award was accepted by Dr Jennifer York on behalf of Dr Fahey.

(submitted by Jagoda Ignjatovic)
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广东省农业科学院
GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES

AVPA Scientific meetings for 1994

1. Scientific meeting and Annual General Meeting. To be held on April 20 in the Gold Coast at the ANA hotel immediately after PIX One day meeting highlighting Queensland research into poultry diseases. Cost \$30-

Draft program

- 9.00 Characterization of NAD independent strains of *Haemophilus paragallinarum* from South Africa; J. Milfin
- 9.20 Characterization of Australian poultry isolates of *Pasteurella multocida*; N. Fegan
- 9.40 An examination of the genetic diversity of Australian avian *Escherichia coli* isolates; R. Bowles
- 10.00 An update on *Bordetella avium* and related organisms; P. Blackall
- 10.20 General discussion
- 10.30 Morning Tea
- 11.00 Future directions for Cyanamid-Websters; T. Gage
- 11.20 Weybridge Mareks disease vaccination experiment; C. Jackson
- 11.40 ARI Mareks disease vaccination experiment; P. Young
- 12.00 Mareks disease epidemiology; R. Jenner
- 12.20 General discussion
- 12.30 Lunch
- 1.30 Seven year perspective of poultry diseases; L. Dowling
- 1.50 Coccidiosis research; N. Stewart
- 2.15 Diseases of ostriches; S. More
- 2.30 Mareks disease ELISA; H. Donohue
- 2.45 Avian adenoviruses; Mansur
- 3.00 Reovirus tenosynovitis; C. Morrow
- 3.15 Afternoon Tea
- 3.45 Annual General Meeting of the AVPA
- 5.00 Close

To attend please contact Carmel Kane by post, Fax or phone and indicate your desire to attend. Bring money on the day. Carmel Kane, VIAS, 475 Mickleham Road, Altwood, 3049, Phone (03) 2174283 Fax (03) 2174299.

2. Two day scientific meeting in Melbourne will be immediately after the Australian Society for Microbiology Scientific meeting and the Grand Final (hopefully no draws) on the 3 and 4 October 1994 at VIAS Altwood. Please submit themes and papers to Peter Young for inclusion in this program ASAP. There will be an OGM of the AVPA at this meeting.

Other meetings

There will be the 17th Federation of Asian Veterinary Associations Council of Representatives Meeting on the 29 and 30 March 1994 in Lahore Pakistan. Members needing information should contact Chris Morrow 03 2174200 fax 03 2174299.

Dr Fahey's response in accepting the Dr Rispens award:

"To one who has never won a scientific award, this acknowledgement by the Board of Trustees of the Dr Bart Rispens Award is very special. I'm only sorry that circumstances prevent me from being with you to receive this award in person, but I am delighted that my long term friend and colleague Dr Jenny York can accept it on my behalf, even though I never convinced her leave her beloved ILTV."

The honour you pay me this evening is heightened by the esteemed scientists who have received this award in the past, and by the memory of Dr Bart Rispens himself. My principal claim to this award is in the concept that recombinant DNA technology could provide an abundant source of the protective subunit of infectious bursal disease virus. The project was made a success by the insight, knowledge and skills of a large number of people, only some of whom are authors on the winning publication. The project was a productive, if not always peaceful, collaboration between the CSIRO Divisions of Animal Health and Biomolecular Engineering. Some of the key contributors were Ahmed Azad, Ian O'Donnell, Ian Macreadie, John Skicko, Neil McKern, Hans Heine and Colin Ward at Biomolecular Engineering and Tony Chapman Jenny Crooks, Peter Waters, Vince Murphy and Katrina Emy at Animal Health. However, these were not the only people who contributed to the project's success. Many other provided the necessary support, particularly the CSIRO SPF Poultry Unit, and the intellectual discussion which fertilised the research. Of course you can not undertake such a project without considerable financial and capital resources behind you. The very existence of CSIRO was central to this project's success, as it has been and hopefully will continue to be, for many more innovative projects. The support of the Chicken Meat research Committee and the Poultry research Advisory Committee started us on our way. This was quickly followed by several rounds of substantial funding from the Generic Technology Component of the Industry research and development Act

(1986); funds which were essential for the continuation of the project for a period of five years. Finally, but by no means least, there was the guidance and financial support provided by Arthur Webster Pty Ltd. The insight and advice provided by Webster's lieutenants, Drs Leigh Schwartzkoff and Phil Lehnack is gratefully acknowledged. However, for me, the long lasting friendships I developed from this collaboration with Dr Arthur Webster (Jnr) and his sister Patricia Lawson are equally important.

I am very proud therefore to receive this award as the representative of a very large group of men and women, who intellectually, physically or financially worked towards this achievement. It is even sweeter that the award is being presented in Sydney, at the first WPA Congress "Downunder". It could only be bettered by the meeting being held in Melbourne, a city I hope all international delegates will take the opportunity to visit.

In closing, I would like to say that receiving the Dr Bart Rispens Award has resurrected a part of my life on which I reflect with pride, namely my time with the Avian Diseases Programme in the CSIRO Division of Animal Health. It was a rare privilege to work with such a wonderful group of creative and productive scientists, many of whom have or will receive recognition in their own right. To have been part of such a great team of scientists was very rewarding. This prize reminds me how much I miss them all. Also as I write these words, I am thinking of all the friends and colleagues I have met and worked with during my 10 years or so researching the diseases of poultry. Many of you are present this evening. My sincerest best wishes to you all. I truly miss not being with you.

Good luck and have a great Congress.
Kevin Fahey.
+++++
Energy equals MASS times the speed of the chicken crossing the road SQUARED.

AVIAN PATHOLOGY

Volume 22 Number 4 1993

HOUGHTON LECTURE

P. A. Barrow. Salmonella control—past, present and future

651

ORIGINAL ARTICLES

B. H. Thorp, Sandra Wilson, Sarah Remme & Sally E. Solomon. The effect of a bisphosphonate on bone volume and eggshell structure in the hen

671

R. J. Julian, S. M. Mirzamani & E. J. Squires. Effect of hypobaric hypoxia and diet on blood parameters and pulmonary hypertension-induced right ventricular hypertrophy in turkey pouls and ducklings

683

R. M. Dewars, F. G. Davealar & H. F. Smit. Infection of broiler parent hens with avian intestinal spirochaetes: effects on egg production and chick quality

693

Judith Varley, R. G. Jones, Janet M. Bradbury & F. T. W. Jordan. A survey of the viral flora of two commercial Pekin duck flocks

703

A. Tabei, J. D. Collins & K. Dodd. Nodular lesions found in Irish poultry during veterinary inspection at poultrymeat plants

715

J. P. Christensen, J. E. Olsen & M. Bisgaard. Ribotypes of *Salmonella enterica* serovar Gallinarum biovars gallinarum and pullorum

725

Isabelle Kempf, A. Blanchard, Fabienne Gebers, Michele Guiter & G. Bennequin. The polymerase chain reaction for *Mycoplasma gallisepticum* detection

739

A. P. A. Mockett, M. B. Higgins, M. Woods & Sarah Orbell. A comparison of three serological methods to detect chicken and turkey antibodies to avian nephritis virus and the use of virus-specific monoclonal antibodies

751

Li Jing, Jane K. A. Cook, T. David, K. Brown, Kathleen Shaw & David Cananagh. Detection of turkey rhinoviruses virus in turkeys using the polymerase chain reaction

771

SHORT COMMUNICATIONS

E. F. Kalela & Miguel Bueno Brinkmann. An outbreak of Pacheco's parrot disease in a psittacine bird collection and an attempt to control it by vaccination

785

Poosala Suresh. Detecting *Bordetella avium* in tracheal sections of turkeys by monoclonal antibody-based indirect fluorescence microscopy

791

CASE REPORT
P. Donn, R. Ducatelle, G. Charlier & P. de Groer. Papillomavirus-like infections in canaries (*Serinus canarius*)

797

BOOK REVIEW
The first Steps Towards an International Harmonisation of Veterinary Biologicals: 1993 and Free Circulation of Vaccines within the EEC

805

NEWS
ERRATUM
TITLE-PAGE, VOLUME CONTENTS, AUTHOR AND SUBJECT INDEXES, 1993

809

811

<Jan 1994>

From Feedstuffs June 1993:
"New research into ergonomics indicates that poultry processing plant workers suspected of needing surgery as a result of carpal tunnel syndrome (CTS) may not need surgery after all..... The Arkansas study looked at the usefulness of a relatively low cost portable device that measures nerve conduction...The study had as its objective the evaluation potential of using nerve ...measurements for the early detection of CTS."

Lerbek and Suanovil Launched

The launch of two new poultry products coincided with the recent Australian poultry symposium in Sydney. Rhone Merieux's Lerbek (chemical coccidiostat) and Suanovil (a macrolide antibiotic) which are distributed by Rhone Poulenc Animal Nutrition are now on the market. The launch involved presentations from:

- Dr Colin Whitehead on recent trends in poultry production;
- Dr Paul Gorse, Rhone Merieux, Lyon, France on Suanovil
- Dr Richard Coulter, Rhone Poulenc Animal Nutrition Technical Manager on Lerbek.

The technical session was attended by representative of almost all the Australian poultry groups and was followed by an afternoon of cruising Sydney harbour on board the "Lauriana" and on ongoing series of unofficial group discussion on subjects highly interesting but too varied to be listed.

The key points from the launch were:

Lerbek:

*Chemical coccidiostat consisting of two synergistic compounds

*to be used in shuttle programs as a support treatment for the ionophores to help combat emerging resistance problems

*recommended as the starter/grower anticoccidial

Suanovil:

*treatment and prevention of CRD (MG and MS)

*High concentration at the site of infection

*long acting effect.

(submitted by A Trollope, Rhone Merieux, Australia)

From Feedstuffs Sept 1992:

"French hens are choosing their accommodation by pressing coloured buttons with their beaks. Egg layers at the National Institute for Poultry Research are able to indicate the living systems they like the best, thanks to JeanMichel Fours who trains them to peck out their preferences....They are not in the same class as circus animals, but they are surprisingly easy to train, the behavioural scientist said. The birds also quickly learn to RING FOR ROOM SERVICE with a peck or two when they want some feed. Other buttons move the walls of their cages out or in to increase or reduce their living space... In a test with 8 groups of hens, two groups voted with their beaks for more space, two groups decreased the living area while 4 groups were, in political terms, DON'T KNOWS as they altered nothing. A further experiment offered layers free choice of litter beds or wire floored cages. First choice was always litter. If other conditions were not quite right - if there was a cold draft for instance - the birds quickly left the litter and chose wire floored accommodation....The ability of poultry to distinguish different colours was revealed by studies at the experimental farm near Aberystwyth in Wales as long ago as 1956, but its practical uses have only recently been perceived in the swing to free-range rearing and egg production....careful observation of large flocks of growers on free range showed them making their way at dusk to arks of the same colour the birds had become accustomed to in their brooders...The practice was even extended to painting feed troughs and drinkers in the same range of colours..." (I can recommend a B&B in Aberystwyth where multiple pecks from the room occupants above and below yours can be easily heard, along with food preferences passing down the plumbing system from all floors above. It was not possible to alter the room space and the room colour coding, as the onset of pecking did not lead to sounds of moving furniture. Pecking at the site and smell of greasy bacon and egg at breakfast did not result in any ration improvements. I now suspect this is where inspiration for this cunning bit of research came from! Ed.)

Poultry Veterinarian Joins Meat Authority

The Victorian Meat Authority (VMA) has recruited well known veterinarian Dr Grant Richards to work on quality assurance (QA) and licensing aspects of the poultry processing industry.

Dr Richards commenced duties with the VMA on 21st February 1994 and will undertake a review of standards of poultry processing plants that will be licensed in several months under a legislative program designed to ensure that there are adequate standards of hygiene and sanitation for processing.

A graduate of Massey University in 1979 Dr Richards has worked in the poultry industry for 14 years and his experience in processing and related aspects of chicken meat production will benefit industry and assist the VMA in implementing new programs.

The VMA is a State statutory agency which will eventually be responsible for meat inspection, licensing of premises and QA programs for the meat industries including poultry, game, and pet food processing under the provisions of the MEAT INDUSTRY ACT proclaimed in mid 1993.

The extension of licensing arrangements to the poultry and game processing industries will ensure uniform policy exists for hygiene and sanitation standards for all sections of the meat industry. Other premises licensed and subject to VMA controls are export abaters, slaughter houses, meat premises, meat inspection depots, knackeries, pet food establishments and retail pet meat shops which has been required under State legislation for a number of years.

Later this year the VMA will also become responsible for the provision of domestic meat inspection services which is currently performed by the Commonwealth Australian Quarantine and Inspection Service (AQIS) under an agreement made with the Victorian Government in 1988.

Dr Richards' interest in QA will assist the implementation of the VMA's policy for QA at poultry processing plants. The VMA has decided that all sections of the meat industry will be on QA programs within 3 years. There will be annual milestones that all sections of the meat industry will be required to achieve in order to maintain their licenses.

To prepare for this change the VMA set up a task force last year to develop a code of practice based on QA at poultry processing. Dr Richards contributed to the development of this code of practice which is currently being circulated to industry for comment. Compliance with the code of practice in stages over the next 3 years will be the basis for the VMA's licensing of poultry processing plants.

The VMA has a policy of consulting closely with industry. Veterinarians, processors and other industry members should contact Dr Richards for further information about the proposed licensing program.

Contact details are:

Address: 651-653 Victoria Street,
Abbotsford, VIC 3067

Mail to: PO Box 548, Richmond VIC 3121

Tel: 03-426-1624
Fax: 03-428-6111

In order to achieve systematised reciprocal technical programming, the Veterinarians from six large marketing companies held a seminar over three days at a Shell Garage in Upper Bunnagrop. In a summary press statement, the group consensus was that their aims could only be met if there was balanced transitional capability and optional incremental concepts in operation at all stages of the technical program. The need for immediate functional organisational options and adoption of synchronised generational hardware to maintain parallel logistical compatibility was also stressed. Next meeting Feb, 1995. (submitted by anon with help from The Australian Magazine, Oct 2-3, 1993.)

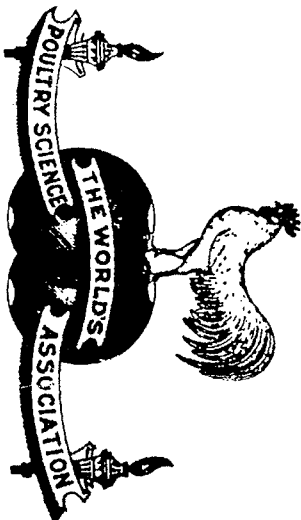
9TH EUROPEAN POULTRY CONFERENCE

ENQUIRIES

FOR all information relating to the 9th European Poultry Conference please contact:

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EDUCATION ORGANIZATION RESEARCH

W.P.S.A. UNITED KINGDOM BRANCH



GLASGOW, SCOTLAND

7th - 12th August, 1994

1994 Poultry Information Exchange

17, 18 and 19 April, 1994

ANA Hotel, View Avenue. Surfers Paradise...in the State of...

Mostly Nearly Always Probably Sunny Queensland

Note that there is an AVPA Scientific session April 20th at the same venue.

If coming to AVPA meeting and staying at the ANA Hotel, please book accommodation through the PIX committee. Use the registration form enclosed.

Special note for AVPA members:

An informal session has been arranged with Bert Payne (ELI LILLEY USA) on Tuesday afternoon (4:45 to 6:30pm) after PIX closes. Bert is guest speaker at PIX. Before joining ELI LILLEY he gained experience in poultry health management as veterinarian at Perdue Farms, Delmarva in the breeder and meat chicken operation.