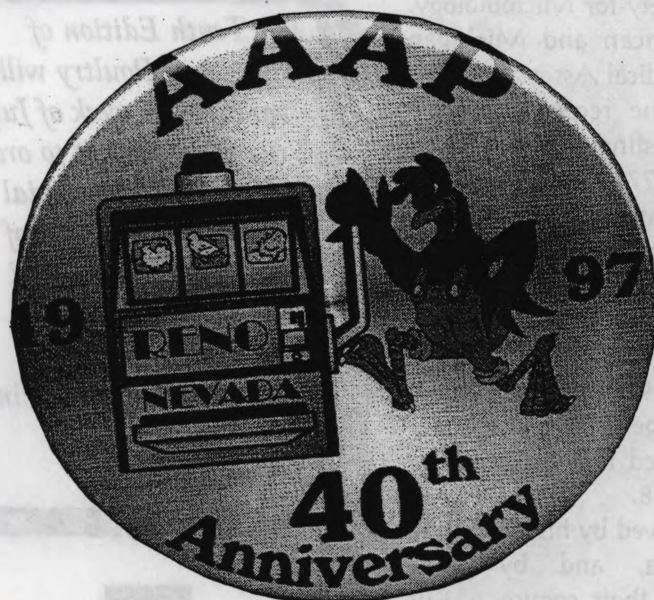


# ❖ AAAP SUMMER NEWSLETTER ❖

June 1997



*It's not too late to get your tickets for the very special 40th Anniversary celebration and Awards Banquet on Sunday, July 20 at 5:30 PM in the Nugget Hotel. There will be a social hour from 5:30 PM-6:30 PM to visit with old friends. The dinner and awards ceremony will follow. Please call Dr. Eckroade to reserve your tickets.*

*The meetings of the AAAP Board of Directors will be all day Saturday, July 19 and Sunday, July 20 and again on Thursday morning, July 24 in John Ascuaga's Nugget Hotel. All members are welcome to attend.*

\*\*\*\*\*

*The AAAP Business Meeting will be on Wednesday, July 23 at 10:10 AM in the Rose Ballroom A in the Nugget Hotel.*

\*\*\*\*\*

*There will be refreshments in the poster room each day at 7:30 AM. Please come and enjoy.*

\*\*\*\*\*

*Members wishing to obtain continuing education certificates for the meeting must see Dr. Eckroade at the meeting.*

## In This Issue

1997 Annual Meeting Info  
1997 Symposium  
1997 Scientific Program  
1997 Committee Meetings  
Meeting Announcements

The AAAP Business Office is located at 382 West Street Road, Kennett Square, PA 19348. Phone (610) 444-4282 or (610) 444-5800 ext. 2257. Fax (610) 444-5837. E-mail [aaap@vet.upenn.edu](mailto:aaap@vet.upenn.edu).

Dr. Stanley Kleven, professor and department head of avian medicine at the University of Georgia was honored with the Pfizer Award for Excellence in Research on April 18 at the University of Georgia, College of Veterinary Medicine's annual Honors and Awards Banquet.

## A SAD NOTE

**John E.. Lancaster** - passed away October 14, 1996. Dr. Lancaster, of Port Hop, Ontario, Canada was best known for his work with Newcastle Disease.

**Charles H. Cunningham** - died on March 27, 1997, at age 83. He was professor emeritus of microbiology in the College of Veterinary Medicine at Michigan State University.

He was born April 12, 1913, in Washington, DC, and earned a bachelor of science degree in animal husbandry from the University of Maryland in 1934. In 1937, he received a master's degree in animal production from Iowa State University and, in 1938, a DVM from the same institution. He received a PhD in Microbiology from MSU in 1953.

From 1938 to 1942, he was an assistant professor at the University of Maryland, where he was in charge of the regional diagnostic laboratory of the Maryland State Board of Agriculture. In 1942, he was appointed an associate professor at the University of Rhode Island. He was in charge of the university's diagnostic laboratory and expanded research he had begun earlier on infectious bronchitis virus.

He joined the MSU faculty in 1945 as an associate professor and in 1954 was promoted to full professor. He initiated and taught a number of important virology courses and established a reputation for supporting and guiding young scientists in virology.

He was a charter member of the American Academy of Microbiology and the American College of Veterinary Microbiologists. He was also a

member of the American Association of Avian Pathologists, American Society for Microbiology, and the American and Michigan Veterinary Medical Associations.

In 1973, he received MSU's prestigious Distinguished Faculty Award. In 1977, he was chosen a fellow of the American Association for the Advancement of Science. His alma mater, Iowa State University, honored him with its Stange Award for Meritorious Service in Veterinary Medicine in 1977, and Michigan State's College of Veterinary Medicine named him an honorary alumnus in 1978.

He is survived by his wife of 57 years, Thelma, and by three daughters and their spouses. His son, John, preceded him in death in 1978.



*The Tenth Edition of Diseases of Poultry will be available the week of July 7th. Don't forget to order your copy at the special AAAP member price of \$88. This offer is good until December 1997. Only one copy per member. Call the Business Office for more information.*

Dr. Nancy Stedman was selected by the faculty at the University of Georgia avian medicine department to receive the David P. Anderson Fellowship. Dr. Stedman is the first recipient of this \$19,000 stipend donated by the Bayer Corporation. The stipend was established in the spring of 1996 in honor of the College of Veterinary Medicine's retiring dean.

Dr. Chuck Hofacre, manager of professional services for the Bayer Corporation, says "Dr. Stedman is an enthusiastic, open-minded person who is dedicated to the poultry industry. Her research will be very applicable to production."

***DONATIONS TO AAAP FOUNDATION******BENEFACTOR (\$25,000 OR MORE)***

Bayer Poultry Unit

Dr. Kenneth Eskelund

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***PATRON (\$5,000 OR MORE)******PRESIDENT'S CLUB (\$1,000 OR MORE)***

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**1997 Poultry Science Association Annual Meeting and Expo** - will be held August 3-6, 1997 in Athens, Georgia at The Georgia Center for Continuing Education. The University of Georgia will host the meeting. A pre-meeting symposium on Infectious Poultry Diseases is scheduled for August 2-3. The National Poultry Extension Workshop is planned for Sunday morning, followed by the Informal Nutrition Conference in the afternoon. The Annual Meeting program includes general sessions covering nutrition, physiology, genetics, and management. For registration, exhibiting, housing, and symposium information, contact PSA Headquarters, 1111 North Dunlap Ave, Savoy, IL 61874. Phone (217) 356-3182; Fax (217) 398-4119 ; E-mail [psa@adsa.org](mailto:psa@adsa.org).

**XIth Congress of the WVPA**- will be held on August 18-22, 1997. For more information, please contact: Hungarian Academy of Sciences, Office for International Cooperation, XIth WVPA International Congress, H-1051 Budapest, Nador u. 7, Hungary Phone: 361-117 2840 Fax: 361-117 2840 or 361-117 2575 Internet home page: [HTTP://WWW.VMRI.HU](http://WWW.VMRI.HU)

**The American Association of Zoo Veterinarians** - will hold it's annual conference in Houston, Texas at the Sheraton Astrodome from October 26-30, 1997.

Program sections include legislation, regulation, and zoonotic diseases; anesthesia and monitoring; new technologies in diagnostics and surgical problems of small and large mammals, birds, fish, amphibians and reptiles.

There will also be a poster session, veterinary student and resident/graduate student paper competitions, and workshops/wet labs. For additional conference information, please contact Wilbur Amand, VMD, Executive Director/AAZV, 6 North Pennell Road, Media, PA 19063. Phone (610) 358-9530. Fax (610) 892-4813. Please note that the Association of Reptilian and Amphibian Veterinarians will hold its annual conference in Houston immediately preceding the AAZV conference.

**The 47th Western Poultry Disease Conference** - will be held March 7-10, 1998 in Sacramento, California.

**10th European Poultry Conference** - will be held June 21-26, 1998 in Jerusalem, Israel. The conference is open for scientific contributions on advancement of knowledge in all aspects of poultry science and the poultry industry all over the world. The Scientific Program will include invited lecturers for Scientific Symposia that will be presented in Plenary Sessions on the following topics:

1. Importance of Health Aspects in Poultry Industry

2. Biotechnology and Genetics
  3. Reproduction and Embryology
  4. Poultry Production in Hot Climates
  5. Feed Resosurces and Feedstuffs
  6. Quality of Poultry Products: Eggs and Meat
  7. Economics and Marketing
  8. Interaction of Different Disciplines
- For more information, contact WPSA - Israel Branch, 10th European Poultry Conference, PO Box 50006, Tel Aviv 61500, Israel. Phone 972-3-5140000; Fax 972-3-5175674/5140077; E-mail [poultry@kenes.ccmil.compuserve.com](mailto:poultry@kenes.ccmil.compuserve.com)

**The 3rd International Symposium on Salmonella** - will be held in conjunction with the 1998 meeting of the AVMA in Baltimore, Maryland. The Symposium will focus on understanding the causes and consequences of the various disease and food safety problems associated with Salmonella, with a particular emphasis on developing practical strategies for controlling the incidence of Salmonella in poultry and poultry products. Both invited speakers and submitted poster presentations will be included in the program. The organizing committee welcomes suggestions from other AAAP members regarding how this symposium can be designed to most effectively serve the needs of the poultry industry and the research community. Please forward any such ideas to either Chuck Hofacre (fax 706-769-0132 or e-mail [clhtkydoc@aol.com](mailto:clhtkydoc@aol.com)) or Richard Gast (fax 706-546-3161 or e-mail [rgast@asrr.arsusda.gov](mailto:rgast@asrr.arsusda.gov)).



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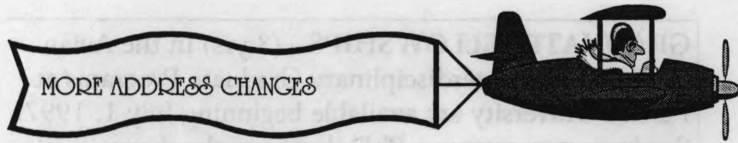
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**The fall meeting of Food and Drug Administration's Veterinary Medicine Advisory Committee (VMAC)** is scheduled for November 12-13, 1997. The agenda topic for November 12 will be veterinary medical issues related to the quality standards for the manufacture of animal drugs, such as current good manufacturing practices (CGMPs). This discussion will be a follow-up to the deliberations held at the May 13, 1997 VMAC meeting. The subject for the November 13, 1997 meeting, along with the meeting location and exact times will be announced later. For more information please contact: Ms. Jacquelyn Pace, FDA/Center for Veterinary Medicine (HFV-200), 7500 Standish Place, Rockville, MD 20855. Phone: 301-594-5920. Fax: 301-594-4512.



### New Poultry Science Association Publication Available

A follow-up to the text, *Proceedings, First International Symposium on the Artificial Insemination of Poultry*, is now available.

This companion publication, *Techniques for Semen Evaluation, Semen Storage, and Fertility Determination* (edited by M. Bakst and H. Cecil, 1997), is a 24 chapter, user-friendly, how-to-guide that provides step-by-step procedures for the estimation of hen fertility, semen quality, and semen storage procedures (liquid and frozen).

The lab manual contains sections on the following topics: semen collection and dilution, determination of sperm concentration, sperm viability, sperm motility and metabolism, evaluation of semen from nondomestic birds, semen cryopreservation, and fertility prediction. It is ideal for use in the classroom and laboratory, and it is a must for educators, commercial breeders, research scientists, geneticists, managers, and producers.

The manual can be purchased for \$12, and there is a 25% discount for orders of 10 or more. There is a savings of \$7 when you buy the book and manual. To order, contact Poultry Science Association at 217-356-3182, fax 217-398-4119, e-mail psa@assochg.org, or visit the website <http://www.psa.uiuc.edu>



**TECHNICAL SERVICES VETERINARIAN** - The Poultry Business Unit of Fort Dodge Animal Health is seeking two technical services veterinarians for work primarily concentrating in the United States. One position will be based out of our headquarters in Overland Park, KS, and the other will be field based in the Southeast.

Candidates for these positions should have a DVM and be a diplomate in the ACPV. These individuals will work with the poultry production industry on vaccination and disease issues.

Candidates should possess excellent communication and interpersonal skills.

Interested candidates may apply by submitting a resume including salary expectations by Monday, July 25, 1997 to: Attn: Human Resources-VET, Fort Dodge Animal Health, 9401 Indian Creek Parkway-Suite 1500, Overland Park, KS 66210. No phone calls accepted. EOE M/F/D/V

**GRADUATE FELLOWSHIPS** - (3 yrs) in the Avian Biotechnology Interdisciplinary Graduate Programs at Purdue University are available beginning July 1, 1997. Students may pursue a PhD degree in the departments of Basic Medical Sciences or Veterinary Pathobiology in the School of Veterinary Medicine or in the Departments of Animal Sciences or Food Science in the School of Agriculture. General areas of research include: 1) diagnosis and treatment of infectious disease of poultry or 2) avian growth and reproduction. Applicants must be U.S. Citizens with B.S. or DVM or equivalent degree. For more information, contact Dr. C.C. Wu, Department of Veterinary Pathobiology, ADDL, Purdue University, West Lafayette, IN 47907. e-mail: [Phester@ansc.purdue.edu](mailto:Phester@ansc.purdue.edu). Phone 317-494-8019. Announcement also available at <http://www.ansc.purdue.edu>. Purdue University is an affirmative action/equal opportunity employer.



**GRADUATE/RESIDENCY POSITION** in anatomic veterinary pathology with emphasis in avian pathology

The Veterinary Medical Diagnostic Laboratory and Department of Veterinary Pathobiology at the University of Missouri are offering a residency/graduate training position in veterinary pathology, with an emphasis in avian pathology, beginning September 1, 1997. The program is designed to qualify the successful trainee to sit for certification by the American College of Veterinary Pathologists. If a graduate degree in poultry health is obtained the trainee will also fulfill a major qualifying requirement to sit for the American College of Poultry Veterinarians exam. An abundance of case material for training in avian and mammalian pathology is available. The laboratory is certified by the American Association of Veterinary Laboratory Diagnosticians, with excellent diagnostic support in bacteriology, virology, serology, toxicology, and clinical pathology. Our faculty include nine diplomates of the American College of Veterinary Pathology (6 anatomic and 3 clinical pathologists) and one diplomate of the American College of Poultry Veterinarians. The trainee will be enrolled in graduate school and will pursue the MS or PhD degree. A DVM or equivalent degree is prerequisite. Candidates should possess a strong academic record, evidence of interest and commitment to pathology, and must be able to communicate with clients effectively. The starting salary is \$21,500 per annum, with benefits. Inquiries or applications (to include a letter of intent stating goals and interests, curriculum vitae, academic transcripts, GRE scores, and names of three references) should be addressed to Dr. Alex J. Bermudez, UMC Veterinary Medical Diagnostic Laboratory, PO Box 6023, Columbia, MO 65205; phone 573-882-6811; e-mail: [bermudez@vmdl.missouri.edu](mailto:bermudez@vmdl.missouri.edu). The deadline for receipt of applications is June 1, 1997 or until a suitable candidate is found. The University of Missouri is an affirmative action/equal opportunity employer.

**AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS  
SCHEDULE OF EVENTS  
JOHN ASCUAGA'S NUGGET HOTEL, RENO, NEVADA**

**SATURDAY, JULY 19**

8:00 AM-7:00 PM

Board of Directors Meeting  
*Tahoe Room*

**SUNDAY, JULY 20**

7:00 AM-7:00 PM

ACPV Exam  
*Bonanza B, C*

8:00 AM-7:00 PM

Board of Directors Meeting  
*Carson Room*

1:00 PM-3:00 PM

Enteric Diseases Committee  
*Donner Room*

2:00 PM-5:00 PM

Biologics Committee  
*South Pacific C, D*

3:00 PM-5:00 PM

History of Avian Medicine Committee  
*Executive Board Room*

**5:30 PM**

**AAAP AWARDS BANQUET**  
*Poolside Terrace*

**MONDAY, JULY 21**

7:00 AM-8:00 AM

Veterinary Licensing Committee  
*Captain Cooks Cabin*

7:00 AM-8:15 AM

Education Committee  
*South Pacific B*

7:00 AM-8:30 AM

Foodsafety & Diseases of Public Hlth Signif  
*South Pacific A, G*

7:30 AM-5:30 PM

AAAP Poster Session  
*Central Pacific A, B, C*

8:00 AM-5:00 PM

Avian Tumor Viruses Symposium  
*Rose Ballroom B*

12:15 PM-1:15 PM

Avian Disease Manual Editorial Committee  
*South Pacific G*

3:00 PM-5:00 PM

ACPV Board Meeting  
*VIP Room*

5:30 PM-6:30 PM

Biotechnology Committee  
*South Pacific C*

6:00 PM-8:00 PM

Respiratory Diseases Committee  
*South Pacific B*

**TUESDAY, JULY 22**

7:00 AM-8:00 AM

Avian Diseases Editorial Board  
*Poolside Terrace*

7:30 AM-8:30 AM

Georgia MAM Alumni Group  
*Captain Cook's Cabin*

7:30 AM-5:30 PM

AAAP Poster Session  
*Central Pacific A, B, C*

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| 7:45 AM-8:30 AM | AAAP/AVMA Liaison Committee<br><i>South Pacific A</i>      |
| 8:30 AM-5:00 PM | Scientific Program Session A<br><i>South Pacific D,E,F</i> |
| 8:30 AM-5:00 PM | Scientific Program Session B<br><i>Rose Ballroom B</i>     |
| 1:30 PM-4:30 PM | ACPV Board Meeting<br><i>South Pacific A</i>               |
| 5:30 PM-7:00 PM | Reference Antisera Committee<br><i>South Pacific A</i>     |
| 6:00 PM-7:00 PM | Tumor Virus Committee<br><i>South Pacific B</i>            |

**WEDNESDAY, JULY 23**

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| 7:00 AM-8:00 AM   | Animal Welfare and Management Committee<br><i>Executive Board Room</i> |
| 7:00 AM-8:00 AM   | Toxic, Infect., Misc., & Emerging Diseases<br><i>South Pacific E</i>   |
| 7:00 AM-10 AM     | ACPV Reception<br><i>Poolside Terrace</i>                              |
| 7:30 AM-8:15 AM   | Epidemiology Committee<br><i>South Pacific G</i>                       |
| 7:30 AM-8:30 AM   | Electronic Information Committee<br><i>South Pacific F</i>             |
| 7:30 AM-8:30 AM   | Kenneth Eskelund Preceptorship Committee<br><i>South Pacific A</i>     |
| 7:30 AM-5:30 PM   | AAAP Poster Session<br><i>Central Pacific A,B,C</i>                    |
| 8:30 AM-5:00 PM   | Scientific Program Session A<br><i>Rose Ballroom A</i>                 |
| 8:30 AM-5:00 PM   | Scientific Program Session B<br><i>Rose Ballroom B</i>                 |
| 10:10 AM-12:10 PM | <b>AAAP BUSINESS MEETING</b><br><i>Rose Ballroom A</i>                 |

**THURSDAY, JULY 24**

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| 7:00 AM-11:00 AM | Board of Directors Meeting<br><i>Executive Board Room</i> |
| 7:30 AM-Noon     | AAAP Poster Session<br><i>Central Pacific A,B,C</i>       |
| 8:30 AM-Noon     | Scientific Program Session A<br><i>Rose Ballroom A</i>    |
| 8:30 AM-Noon     | Scientific Program Session B<br><i>Rose Ballroom B</i>    |

**PROGRAM FOR THE 1997 AVIAN TUMOR VIRUSES SYMPOSIUM****Diagnosis and control of Neoplastic Diseases: current status and perspectives for the future**

Monday, July 21 - Rose Ballroom B - 2nd Floor

|                                                                                                              |                                                                                           |                |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------|
| 8:00-8:05 am                                                                                                 | <b>Welcome</b>                                                                            | A.M. Fadly     |
| <b>Session I: Differential Diagnosis of Avian Lymphomas</b><br><b>Moderator: Patricia Wakenell</b>           |                                                                                           |                |
| 8:05-8:20                                                                                                    | Overview of problems in diagnosis of neoplastic disease                                   | P. Wakenell    |
| 8:20-8:40                                                                                                    | Criteria for differential diagnosis of avian lymphomas                                    | A.M. Fadly     |
| 8:40-9:00                                                                                                    | Molecular approaches for diagnosis of avian lymphomas                                     | D. Ewert       |
| 9:00-9:20                                                                                                    | PCR as a tool for diagnosis of avian tumor viruses & tumors                               | B. Silva       |
| 9:20-9:40                                                                                                    | Open discussion with all speakers of session I                                            |                |
| 9:45-10:00                                                                                                   | <b>Break</b>                                                                              |                |
| <b>Session II: Marek's Disease</b><br><b>Moderator: Bruce Calnek</b>                                         |                                                                                           |                |
| 10:00-10:20                                                                                                  | Clinical aspects and current field problems in layer chickens                             | K. Kreager     |
| 10:20-10:40                                                                                                  | Clinical aspects and current field problems in broilers                                   | T. Holder      |
| 10:40-11:00                                                                                                  | Epidemiology and adult transmission                                                       | J. Rosenberger |
| 11:00-11:20                                                                                                  | Vaccinal immunity to Marek's disease                                                      | T. Schat       |
| 11:20-11:40                                                                                                  | Current and future strategies for control of Marek's disease                              | R. Witter      |
| 11:45-12:10                                                                                                  | Open discussion with all speakers of Session II                                           |                |
| 12:10-1:30                                                                                                   | <b>Lunch</b>                                                                              |                |
| <b>Session III: Avian Leukosis</b><br><b>Moderator: William Chase</b>                                        |                                                                                           |                |
| 1:30-1:50                                                                                                    | An overview of problems and progress in control of avian leukosis                         | L. Spencer     |
| 1:50-2:10                                                                                                    | Progress in control of ALV-J in heavy breeds                                              | A. Fadly       |
| 2:10-2:40                                                                                                    | Current status of epidemiology, diagnosis and control of ALV-J                            | L. Payne       |
| 2:45-3:00                                                                                                    | Open discussion with all speakers of Session III                                          |                |
| 3:00-3:15                                                                                                    | <b>Break</b>                                                                              |                |
| <b>Session IV: Reticuloendotheliosis and other Neoplastic Conditions</b><br><b>Moderator: Richard Witter</b> |                                                                                           |                |
| 3:15-3:30                                                                                                    | REV in chickens - an overview                                                             | R. Witter      |
| 3:30-3:45                                                                                                    | Epidemiology and control of REV in turkeys                                                | H. Medina      |
| 3:45-4:15                                                                                                    | Epidemiology and control of REV in chickens and turkeys                                   | I. Davidson    |
| 4:15-4:30                                                                                                    | Methods for detection of REV in vaccines                                                  | S. Taylor      |
| 4:30-4:45                                                                                                    | Multicentric histiocytosis & so-called dermal squamous cell carcinoma in broiler chickens | M. Goodwin     |
| 4:45-5:00                                                                                                    | Open discussion with all speakers of session IV                                           |                |
| 5:00-5:05                                                                                                    | Closing remarks                                                                           | J. Sharma      |

## AAAP/AVMA SCIENTIFIC PROGRAM

| <b>TUESDAY</b> | <b>SESSION A</b><br>Southern Pacific Rooms D,E,F - 3rd floor                                                                                                             | <b>SESSION B</b><br>Rose Ballroom B - 2nd floor                                                                                                                                         |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:30-8:50 AM   | <i>Mark Jackwood, B. Arteit</i><br>Sequence, phylogenic, and pathogenic analysis of emerging IBV variant viruses in the U.S.A.                                           | <i>Donald Reynolds, J. Desper, S. Akin</i><br>Studies of coronavirus and poult enteritis                                                                                                |
| 8:50-9:10 AM   | <i>Frederic Hoerr, L. Lauerman, W. Cowart, T. Kelly, F. Van Sambeek</i><br>Infectious bronchitis: clinical and pathological correlates of viruses isolated from broilers | <i>Holly Sellers, T. Brown, M. Jackwood, L. Kelley, A. Garcia</i><br>Sequence analysis and comparison of the turkey enteric coronavirus with avian and mammalian corona viruses         |
| 9:10-9:30 AM   | <i>Syed Naqi</i><br>Age related maturation of the mucosal immune system in chickens: its effects on response to IBV vaccination                                          | <i>Tom Brown, L. Kelley, H. Sellers, A. Garcia</i><br>Propagation and titration of turkey enteric coronavirus field isolates in HRT-18 cells                                            |
| 9:30-9:50 AM   | <i>Alberto Back, K.V. Nagaraja, R. Gireesh</i><br>Use of iron restriction media in the development of salmonella vaccine                                                 | <i>Tom Brown, L. Kelley, H. Sellers, A. Garcia</i><br><i>In vitro</i> activity of serum, yolk, and chemotherapeutics against spiking mortality-associated turkey enteric corona viruses |
| 9:50-10:10 AM  | <i>Y.M. Saif, O. Ture, D. Jackwood</i><br>Characterization of highly virulent strains of IBD virus                                                                       | <i>H. John Barnes, J. Guy, J.T. Weaver, S. Jennings</i><br>Turkey flocks with high ("spiking") mortality that are negative for turkey coronavirus                                       |
| 10:10-10:30 AM | <b>BREAK</b>                                                                                                                                                             | <b>BREAK</b>                                                                                                                                                                            |
| 10:30-10:50 AM | <i>Simon Shane, S. Sen</i><br>Evaluation of alternative strategies to prevent Newcastle Disease in Southeast Asia                                                        | <i>AnaPatricia Garcia, T. Brown, P. Villegas</i><br>Clinical and histopathological findings in turkey poult inoculated with enteric bovine coronavirus                                  |
| 10:50-11:10 AM | <i>Vaithianathan Sivanandan, R. Folitse, D. Halvorson</i><br>Immunopotential of Newcastle Disease vaccine in chickens                                                    | <i>T.L. Lin, S. Tsai, C.C. Wu, T. Bryan</i><br>Sequence analysis of spike protein S1 subunit of turkey coronavirus isolates                                                             |

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|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:10-11:30 AM | <i>Daniel King</i><br>A comparison of protection induced by a fowl pox recombinant Newcastle Disease vaccine and Newcastle Disease virus (NDV) strain B1 to a viscerotropic velogenic NDV challenge                | <i>Ali Akbar, (Reed Rumsey Award Winner)</i><br><i>In vitro</i> propagation of stunting syndrome agent                                                                                                                          |
| 11:30-11:50 AM | <i>James Davis, T. Siopes, T. Brown</i><br>Controlled light-dark exposure in chickens: effects on serum melatonin levels, immunologic responses, feed conversion ratios and profits                                | <i>Frank Edens, R. Doerfler</i><br>Cellular and biochemical lesions associated with poult enteritis and mortality syndrome                                                                                                      |
| 11:50-12:10 PM | <i>Roy Montgomery, C. Boyle</i><br><i>Escherichia coli</i> of chicken origin: biochemical profiles and lethality for embryonated eggs                                                                              |                                                                                                                                                                                                                                 |
| 12:10-1:30 PM  | <b>Lunch</b>                                                                                                                                                                                                       | <b>Lunch</b>                                                                                                                                                                                                                    |
| 1:30-1:50 PM   | <i>Gireesh Rajashekara, A. Back., V. Kapur, K. Nagaraja</i><br>Application of recombinant fimbrial protein antigen for the specific detection of <i>Salmonella enteritidis</i> infection in chickens               | <i>Robert Droual, R. Chin</i><br>Interaction of <i>Escherichia coli</i> serotype 078 H9 and <i>Ornithobacterium rhinotracheale</i> in turkeys                                                                                   |
| 1:50-2:10 PM   | <i>Mark Goodwin, J. Brown, D. Bounous, K. Dobson</i><br>Comparison of histologic lesion scoring to oocyst counting to determine the magnitude of <i>Eimeria maxima</i> infections in broiler chickens in the field | <i>Fidelis Hegngi, D. Karunakaran, K. Opengart, C. Larsen, F. Pierson</i><br>Monitoring response to vaccination and field exposure to <i>Ornithobacterium rhinotracheale</i> (ORT) using the ORT serum plate agglutination test |
| 2:10-2:30 PM   | <i>L. Wang, Y. Xu, E. Collisson</i><br>Targeted recombination and chimeric IBV                                                                                                                                     | <i>Craig Riddell</i><br>Hydrocephalus in ostrich embryos                                                                                                                                                                        |
| 2:30-2:50 PM   | <i>Deoki Tripathy</i><br>Molecular studies with avian pox viruses: PCR for identification of A-type inclusion gene in fowlpox                                                                                      | <i>Richard Fulton, W. Reed, E. Potter</i><br>Further pathologic characterization of a Michigan <i>Escherichia coli</i> isolate in turkeys                                                                                       |
| 2:50-3:10 PM   | <i>Margie Lee, S. Rahman, A. Henk, F. Burch</i><br>Immunological and genetic analysis of the neuraminidase of <i>Pasteurella multocida</i>                                                                         | <i>Carol Cardona, W. Reed</i><br>Construction and <i>in vitro</i> analysis of a recombinant fowlpox virus expressing the native hexon of hemorrhagic enteritis virus                                                            |
| 3:10-3:30 PM   | <b>BREAK</b>                                                                                                                                                                                                       | <b>BREAK</b>                                                                                                                                                                                                                    |

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|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3:30-3:50 PM     | Hyun Lillehoj, K. Song, K. Choi, D. Zalenga, J. Han<br>Effect of recombinant chicken gamma-interferon on coccidia                                                                                       | David Rives, M. Wilson<br>Serotypes and DNA fingerprint profiles of <i>Pasteurella multocida</i> isolated from turkeys and hogs                                                                     |
| 3:50-4:10 PM     | David White, R. Wilson, J. Rosenberger, T. Whittam<br>Genotypic and phenotypic variation among strains of <i>Escherichia coli</i> associated with avian colibacillosis                                  | Robert Kunkle, R. Rimler<br>Evaluation of passive immunization of turkeys challenged with <i>Aspergillus fumigatus</i>                                                                              |
| 4:10-4:30 PM     | Mark Goodwin, J. Brown<br>Histomorphometry of transmissible viral proventriculitis in chickens                                                                                                          | Steven Clark, A. Castiglia<br>Safety of lasalocid in turkey breeder hens                                                                                                                            |
| 4:30-4:50 PM     | Mac Terzich, C. Quarles<br>The effects of sodium bisulfate on broiler health and performance and on mortality due to ascites                                                                            | Gorica Rajicic-Spasojevic<br>The effect of incubation temperature on hatchability and embryo mortality pattern in <i>Mycoplasma iowae</i> positive turkeys                                          |
| 4:50-5:10 PM     | H. Cervantes, S. Fitz-Coy, J. Smith, G. Rowland<br>Correlation between gross lesion scores, oocyst counts and microscopic lesion scores for the diagnosis of coccidiosis in commercial broiler chickens | H. Shivaprasad, R. Chin, R. Droual<br>Unusual syndromes associated with <i>Mycoplasma synoviae</i> in turkeys                                                                                       |
| <b>WEDNESDAY</b> | <b>SESSION A</b><br>Rose Ballroom A - 2nd floor                                                                                                                                                         | <b>SESSION B</b><br>Rose Ballroom B - 2nd floor                                                                                                                                                     |
| 8:30-8:50 AM     | In-Jeong Kim, J. Sharma<br>Immunosuppressive effects of infectious bursal disease virus in chickens                                                                                                     | Marcus Head, S. Kleven<br>Investigation of 16s-23s rRNA intergenic region of <i>Mycoplasma gallisepticum</i>                                                                                        |
| 8:50-9:10 AM     | Lisa Newberry, N. Rath, J. Skeeles<br>Apoptosis in the proventriculus associated with acute infectious bursal disease virus challenge                                                                   | David Ley, R. Pherigo, S. Levisohn, J. Berkhoff<br>Random amplified polymorphic DNA (RAPD) analyses for molecular epidemiological studies of <i>Mycoplasma gallisepticum</i> and <i>M. Synoviae</i> |
| 9:10-9:30 AM     | Jagdev Sharma, N. Tanimura<br>T cell response in chickens exposed to infectious bursal disease virus                                                                                                    | Martha Ewing, K. Cookson, R. Phillips, K. Turner, S. Kleven<br>Experimental and lateral infection with <i>Mycoplasma synoviae</i> with delayed serological response in chickens                     |

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|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:30-9:50 AM   | <i>C.C. Wu, H. Chang, T. Lin, H. Thacker</i><br>Adaptation and serial passage of infectious bursal disease virus in a continuous cell line                                                                           | <i>Robert O'Connor, K. Turner, T. Brown, S. Kleven, L. Gomez, J. Cline (Reed Rumsey Award Winner)</i><br>Pathogenicity for domestic poultry of <i>Mycoplasma gallisepticum</i> isolated from a house finch |
| 9:50-10:10 AM  | <i>Chinta Lamichhane</i><br>ELISA provides improved detection of antibody to infectious bursal disease virus (IBVD)                                                                                                  | <i>Kathy Turner, S. Kleven</i><br>Continuing evaluation of the displacement of live F-strain <i>Mycoplasma gallisepticum</i> vaccine with live ts-11 on a multi-age commercial layer farm                  |
| 10:10-12:10 PM | <b>AAAP BUSINESS MEETING</b>                                                                                                                                                                                         | <b>AAAP BUSINESS MEETING</b>                                                                                                                                                                               |
| 12:10-1:30 PM  | <b>LUNCH</b>                                                                                                                                                                                                         | <b>LUNCH</b>                                                                                                                                                                                               |
| 1:30-1:50 PM   | <i>Daniel Venne</i><br>Bursal size as measured by bursameter (Solvay) and its effect on broiler performance and the way bursal size is affected by breeder age, breeder immunity, broiler age and management factors | <i>Tami Kelly, L. Lauerman, F. Hoerr</i><br>The role of chicken anemia virus in broiler diseases in Northwest Alabama                                                                                      |
| 1:50-2:10 PM   | <i>Robert Charette, D. Venne</i><br>Optimal IBD vaccination strategy in heterogeneous broiler flocks: A computer modeling approach                                                                                   | <i>Benjamin Lucio-Martinez, M. Khan, R. Getchell</i><br>Persistent transmission of chicken infectious anemia in vertically-infected hens                                                                   |
| 2:10-2:30 PM   | <i>Pedro Villegas, M. Ruano, J. El-Attrache</i><br>Attenuation, stability, and protection afforded by infectious laryngotracheitis virus                                                                             |                                                                                                                                                                                                            |
| 2:30-2:50 PM   | <i>Laura Kohrt, W. Schnitzlein</i><br>Efficacy of recombinant thymidine kinase deficient infectious laryngotracheitis virus as vaccines                                                                              | <i>Scott Fitzgerald, S. Briggs, W. Reed</i><br>Effects of polyomavirus challenge following chicken anemia virus infection in chickens                                                                      |
| 2:50-3:10 PM   | <i>Shirin Munir, V. Kapur, V. Sivanandan</i><br>Molecular cloning, expression and immunogenicity of nucleoprotein gene of avian influenza virus                                                                      | <i>Richard Julian, S. Mirsalimi</i><br>The effect of hypobaric hypoxia on the morphology of the pre-capillary vessels in the lung of chickens                                                              |
| 3:10-3:30 PM   | <b>BREAK</b>                                                                                                                                                                                                         | <b>BREAK</b>                                                                                                                                                                                               |

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|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3:30-3:50 PM    | <i>David Suarez, M. Garcia, M. Perdue</i><br>Phylogenetic analysis of the nonstructural and hemagglutinin genes of North American H5 isolates of avian influenza                                                                                                   | <i>Joan Jeffrey, L. Martinez, B. Weeks, G. Sitterz-bhatkar, T. Odom</i><br>Ultrastructural examination of embryonic and post-hatch pulmonary arteries from fast and slow growing chicken lines |
| 3:50-4:10 PM    | <i>Dennis Senne, B. Panigrahy</i><br>Live bird markets: a safe haven for avian influenza viruses                                                                                                                                                                   | <i>Catherine St. Hill, J. Sharma</i><br>Host virus relationship after in ovo vaccination                                                                                                       |
| 4:10-4:30 PM    | <i>Richard Slemons, P. French, K. Lamers, S. Goclar</i><br>Evaluation of directigen Flu A assay for rapid detection of avian influenza virus antigen in clinical samples and for rapid identification of type A influenza viruses                                  | <i>Susan Lockaby, F. Hoerr</i><br>Respiratory mucosal interaction of pathogenic and nonpathogenic <i>Mycoplasma synoviae</i>                                                                   |
| 4:30-4:50 PM    | <i>David Swayne, T. Mickle</i><br>Comparison of hemagglutinin genes from highly pathogenic avian influenza challenge viruses and a recombinant fowlpox vaccine: implications on vaccine efficacy for future control of highly pathogenic avian influenza outbreaks | <i>Luis Gomez, P. Villegas</i><br>Effect of antibiotics on the herpesvirus vaccine                                                                                                             |
| 4:50 -5:10 PM   | <i>Sharon Heins Miller, R. Smith</i><br>The effect of skim milk on NDV and IBV titers                                                                                                                                                                              | <i>Hafez Mohamed Hafez</i><br>Serological surveillance on <i>Ornithobacterium rhinotracheale</i> (ORT) in broiler breeder flocks                                                               |
| <b>THURSDAY</b> | <b>SESSION A</b><br>Rose Ballroom A - 2nd floor                                                                                                                                                                                                                    | <b>SESSION B</b><br>Rose Ballroom B - 2nd Floor                                                                                                                                                |
| 8:30-8:50 AM    | <i>Susan Williams, E. Smith, A. Fadly, W. Reed</i><br>Detection of subgroup J. Avian Leukosis virus using the polymerase chain reaction (PCR)                                                                                                                      | <i>Robert Norton, S. Bilgili</i><br>Further studies on the relationship of enteric and non-enteric <i>E. coli</i> with those isolated from avian cellulitis lesions                            |
| 8:50-9:10 AM    | <i>Karel Schat, C. Markowski</i><br><i>In vitro</i> stimulation of antigen-specific cytotoxic T cells from Marek's disease vaccinated chickens                                                                                                                     | <i>Martine Boulianne, M. Tessier, S. Messier</i><br>Lesion evolution assessment in experimentally reproduced cellulitis of broiler chickens through a non-invasive technique                   |

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|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:10-9:30 AM   | <i>Lucy Lee</i><br>Biological and biochemical properties of Marek's disease virus latent protein MEQ                                                      | <i>Jean Sander, R. Resurreccion, B. McMurray</i><br>ELISA serological evaluation of broiler breeders following live PM-1 vaccination and pasteurella challenge |
| 9:30-9:50 AM   | <i>Richard Witter, M. Niikura, R. Silva</i><br>Attenuation strategies for Marek's disease virus                                                           | <i>Dennis Senne</i><br>Pneumovirus in turkeys                                                                                                                  |
| 9:50-10:10 AM  | <i>Donna Carver</i><br>Risk factors associated with increased condemnations due to Marek's disease in broilers                                            | <i>Francene Van Sambeek, F. Hoerr</i><br>Effects of excessive coccidiostat levels on ten breeder flocks in Alabama                                             |
| 10:10-10:30 AM | <b>BREAK</b>                                                                                                                                              | <b>BREAK</b>                                                                                                                                                   |
| 10:30-10:50 AM | <i>Ping Wu, L. Lee, W. Reed</i><br>Preparation of Marek's disease virus glycoprotein H monoclonal antibodies                                              | <i>Tim Tasner, R. Silva, X. Wu, M. Holland</i><br>Characterization of latent turkey herpesvirus cDNA                                                           |
| 10:50-11:10 AM | <i>Steven Kaplan, K. Schat</i><br>Modulation of Marek's disease virus (MDV) ICP4 gene with recombinant chicken interferon (rChIFN)                        | <i>Silke Rautenschlein, J. Sharma</i><br>Immunosuppression by hemorrhagic enteritis virus (HEV) injection in turkeys                                           |
| 11:10-11:30 AM | <i>Deshan Li, H. Kung, L. Li</i><br>Biochemical characterization of MDV oncogene Meq and its splicing variant                                             | <i>Radivoje Spasojevic, J. Newman</i><br>Development of an enzyme-linked immunosorbent assay for detection of antibodies to avian adenovirus group in turkeys  |
| 11:30-11:50 AM | <i>Teresa Morishita, P. Aye, B. Harr, R. Stonerock, C. Cobb</i><br>The use of an avian specific probiotic to reduce <i>C. jejuni</i> shedding in broilers | <i>John Maurer</i><br>The distribution of "Curli" and Tsh hemagglutinin among avian <i>Escherichia coli</i>                                                    |
| 11:50-12:10 PM | <i>Robert Kiers</i><br>Hatching incidence of anomalies in broiler breeders                                                                                | <i>Peter Scott</i><br>A review of living mycoplasma vaccines                                                                                                   |
| 12:10 PM       | <b>ADJOURN</b>                                                                                                                                            | <b>ADJOURN</b>                                                                                                                                                 |

# **POSTER PROGRAM**

Central Pacific Room A,B,C - 3rd floor

1. *Akbar Ali, D. Reynolds*  
Stunting syndrome in turkey poult: characterization of a newly isolated virus
2. *Alongkorn Amonsin, J. Wellehan, C. Linderman, M. Edman, P. Vandamme, V. Kapur*  
Molecular epidemiology of *Ornithobacterium rhinotracheale*
3. *Denise Bounous*  
Effect of aflatoxin on the cell-mediated immune system of wild turkey poult
4. *Thomas Bryan, C. Hanika, R. Porter, Jr.*  
Case Report, Pyelonephritis in young turkeys
5. *Rocio Crespo, B. Hunter, S. Yamashiro*  
Nonspecific mechanisms of defense development in the thoracic air sacs of turkeys with age
6. *Stephen Davis, K. Dobson, J. Radu*  
Using a computerized database to compare vaccination and medicinal feed additive programs to broiler production parameters and necropsy lesion score trends
7. *A. Singh Dhillon, O. Jack, H. Shivaprasad*  
Pathogenicity of *Salmonella enteritidis* in SPF chickens
8. *A. Singh Dhillon*  
Viral arthritis in broilers
9. *Kurt Dobson, S. Davis, J. Radu*  
Using a computerized database to compare necropsy lesion score trends with broiler production parameters
10. *Penelope Gibbs, J. Maurer, R. Wooley*  
Analysis of an *Escherichia coli* plasmid from an avian isolate of proven virulence
11. *Luis Gomez, R. Page*  
Correlation between the production performance and the bursal quality in commercial broiler farms in Georgia
12. *Luis Gomez, T. Brown, G. Rowland*  
Digitized microscopic images for teaching avian histopathology
- 13.

14. James Guy, H. J. Barnes, L. Smith, J. Breslin  
Poult enteritis and mortality syndrome ("spiking mortality"): immunohistochemical and electron microscopic studies
15. Caroline Hoellrich, J. Wellehan, A. Amonsin, R. Rimler, V. Kapur  
Molecular epidemiology of *Pasteurella multocida* recovered from avian sources
16. Shelly Horne, L. Nolan, T. Kottom, K. Young  
Characterization of the fkpA gene of an avian *Salmonella typhimurium* var *Copenhagen* isolate
17. Lakshmi Kamalanathan, P. Lukert  
Avian polyomavirus or budgerigar fledgling disease virus (BFDV)
18. Mazhar Khan, H. Wang  
Multiplex PCR amplification for the detection and differentiation of avian respiratory diseases
19. Lloyd Lauerman, V. Van Santen  
Ostrich mycoplasmas: new species?
20. Margie Lee, F. Burch, A. Henk  
DNA fingerprinting to differentiate among serotype 3,4 isolates of *Pasteurella multocida*
21. Kristi Moore, B. Seal, J. Bennett, M. Jackwood  
Infectious bronchitis virus sequence analysis of four California variants and the Florida serotype
22. Kakambi Nagaraja, G. Rajashekara, V. Kapur, A. Back  
SERE-PCR fingerprinting of *Salmonella enteritidis*
23. Lisa Nolan, S. Horne, C. Giddings  
Contribution of iss to the virulence of an avian *Escherichia coli*
24. Samantha Pfaff, L. Nolan  
Distribution of factors related to complement resistance among avian *Escherichia coli*
25. Sudhir Reddy, P. Singh, J. Newman  
Specific lymphoproliferation to *Mycoplasma gallisepticum* antigens: comparison of peripheal blood mononuclear cell and splenocyte responses in vitro
26. Richard Rimler, G. Nordholm  
DNA fingerprinting of *Reimerella anatipestifer*
27. Amer Silim, M. Shapouri  
Characterization of avian reovirus S1133 strain with a viable internal deletion in the S1 gene
- 28.

29. *Michelle Tessier, M. Boulianne, S. Messier*  
Development of a non-invasive technique to study dynamics of inflammation in broiler chickens
- 30.
31. *Chinling Wang, C. Hong, L. Hanson*  
Detection and quantitation of *Listeria monocytogenes* using quantitative PCR
32. *Ping Wei, K. Li*  
The serotyping of Guangxi isolates of infectious bronchitis virus in chickens by neutralization test on tracheal organ culture
33. *Jame F.X. Wellehan, V. Kapur*  
Identification of virulence genes in avian *E. coli*
34. *Richard Wooley, P. Gibbs, T. Brown, J. Glisson, W. Steffens*  
Effect of recombinant plasmid pHK11 transformed into an avirulent avian *Escherichia coli* on colonization of the trachea in broiler chickens
- 35.
36. *R. Hein, S. Mengle-Whereat*  
Recent epidemiology studies regarding the prevalence of "antigenic" different infectious bursal disease viruses (IBDV) in the USA
37. *Kathy Esty, V. Leathers, P. Tyrrell*  
Determination of *Mycoplasma gallisepticum* and *Mycoplasma synoviae* antibody levels in chicken and turkey sera using a single ELISA format
38. *Phyllis Tyrrell, J. Carroll, V. Leathers*  
Detection of avian influenza virus antibodies in chicken and turkey sera using a single indirect enzyme linked immunosorbent assay (ELISA)
39. *Peter Woolcock, M. McFarland*  
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