

# ◆ AAAP SPRING NEWSLETTER ◆

April 1994

## ◆ AAAP AWARDS LUNCHEON

**M**ark your calendar and make your reservations for the AAAP Awards Luncheon to be held in San Francisco, California on Monday, July 11, 1994 from 12-2 pm in the Metro I Room at the ANA Hotel.

Recipients of the following awards will be recognized during the luncheon: The P.P. Levine Award, Upjohn Achievement Award, Special Service Award, Glenn Snoeyenbos New Investigator Award, Reed Rumsey Student Award, the C.A. Bottorff Award and the poster awards. Please return enclosed ticket order form by June 1, 1994.



AVMA meeting Reservation Forms are available through the regular issues of JAVMA. Non-AVMA members should write to Bob Schlax to obtain registration forms. AVMA, 1931 N. Meacham Road, Suite 100, Schaumburg, IL 60173.



## BOARD MEETINGS

The AAAP Board of Directors will meet all day Friday, July 8 and Saturday, July 9 and again on Wednesday morning. All meetings will be held in the Board Room at the ANA. Any members having business to bring to the Board is welcome.

## ◆ ANNUAL MEETING INFORMATION

**T**he program for the Respiratory Diseases of Broilers and Turkeys Symposium and the AVMA-Avian Medicine Scientific Program is enclosed. The Scientific Program begins with the Symposium and the poster paper session on Sunday, July 10 and the platform papers on Monday and goes through Wednesday noon. Please note that there will be dual sessions again this year. All of these sessions will be held in the Moscone Convention Center. The Board Meetings and AAAP Committee meetings will be held in the ANA Hotel.

## Inside This Issue

**1 AAAP AWARDS LUNCHEON INFO**

**2 AVMA MEETING INFORMATION**

**3 AIRPORT SHUTTLES & PARKING**

**4 COMMITTEE MEETING INFO**

**5 SCIENTIFIC PROGRAM**



## ♦ CE CREDITS

**C**ontinuing Education credits are available for those attending the Scientific Program. If you wish to obtain these credits, you must see Dr. Eckroade at the meeting and give him a business card. Please do not make a request for CE credits after the meeting because it is unfair to expect anyone to remember all the members who attended.



**T**ransportation to and from the San Francisco Airport.

**Taxi** - available 24 hours. Approximate fare \$30.

**Limousine service** - Available at airport. Costs range from \$50-60.

**Airport Connection** - Direct transportation between airport and Bay Area. Reservations recommended at least 3 hours in advance. One-way fare is \$11. Credit cards accepted. (414) 885-2666.

**San Francisco Super Shuttle** - Airport ground transportation provided door to door 24 hours every day. Reservations recommended at least 3 hours in advance. One-way fare is \$11. Credit cards accepted. (415) 558-8500.

**SFO Airporter** - Regularly scheduled motorcoach service between the airport and San Francisco major hotels. No reservations are necessary. Service every 20 minutes from 5 am-midnight. One-way fare is \$8. Round trip fare is \$12. No credit cards accepted. (415) 495-8404.

**Yellow Airport Shuttle** - Direct transportation from SFO/Oakland International Airports and San Francisco. Service available 24 hours. To the airport, call for reservations at least 3 hours before departure time. One-way fare from SFO is \$9. No credit cards accepted. (415) 282-7433.



SAN FRANCISCO

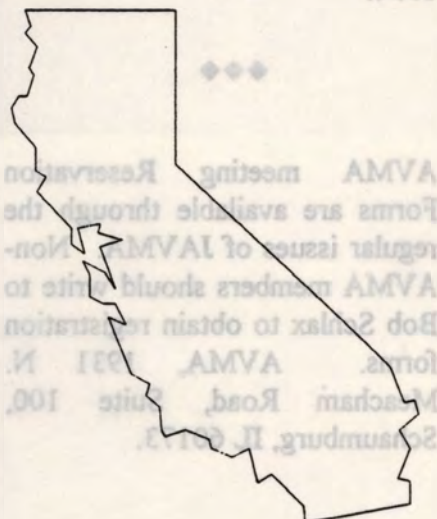
**P**arking rates within a block of ANA Hotel.

**ANA Hotel** - 50 Third Street. \$7 first 1/2 hour. \$2 each additional 1/2 hour. \$21 for 3 hours and up. 24 hour service.

**U-park and Lock** - Third between Howard and Mission. \$6 all day.

**Fifth and Mission** - 833 Mission St. \$.75 first hour, \$1.25 2nd hour, \$2.50 3rd hour, \$4 4th hour, \$5.50 5th hour, \$7 6th hour, \$9 over 6 hours. Open 24 hours.

**Moscone Center Garage** - 255 3rd St @ Howard. Early Bird Special \$7, in before 9 am and out by 6 pm. Other rates same as Fifth and Mission. Hours. 6 am - 10 pm.





**AAAP COMMITTEE MEETINGS***All meetings will be held in the ANA Hotel***FRIDAY, JULY 8**

8:00 AM - 5:00 PM

Board of Directors Meeting

Board Room

**SATURDAY, JULY 9**

8:00 AM - 5:00 PM

Board of Directors Meeting

Board Room

9:00 AM - 5:00 PM

Diseases of Poultry Editorial Com

Civic Room

4:30 PM - 5:30 PM

Veterinary Licensing Committee

Concordia Room

7:00 PM - 9:00 PM

Respiratory Diseases Committee

Franciscan I

**SUNDAY, JULY 9**

8:00 AM - 9:00 AM

Memorial Fund Committee

Civic Room

5:00 PM - 6:00 PM

Animal Welfare Committee

Cornell Room

5:00 PM - 6:00 PM

Biotechnology Committee

Commonwealth Room

5:00 PM - 7:00 PM

Enteric Diseases Committee

Olympic Room

5:30 PM - 6:30 PM

Reference Antisera Committee

Civic Room

**MONDAY, JULY 11**

7:00 AM - 9:00 AM

Technical Service Veterinarians

Franciscan II and III

8:00 AM - 9:30 AM

Georgia MAM Alumni Group

Concordia Room

8:00 AM - 9:30 AM

History of Avian Medicine Com

Civic Room

8:00 AM - 9:30 AM

Avian Diseases Editorial Board

Cornell Room

8:00 AM - 9:30 AM

AVMA Liaison Committee

Olympic Room

8:00 AM - 9:30 AM

Education Committee

Commonwealth Room

**NOON - 2:00 PM****AAAP Awards Luncheon****Metro I**

5:30 PM - 7:00 PM

Toxic, Infectious and Misc Dis

Concordia Room

5:30 PM - 7:30 PM

Tumor Virus Committee

Olympic Room

5:45 PM - 7:15 PM

Dis Reporting and Nomenclature

Civic Room

**TUESDAY, JULY 12**

7:30 AM - 8:30 AM

Diseases of Wild Birds Committee

Civic Room

7:30 AM - 9:30 AM

Foodsafety Committee

Franciscan II and III

7:30 AM - 9:30 AM

Drugs and Biologics Committee

Franciscan I

8:00 AM - 9:00 AM

Preceptorship Committee

University Room

5:30 PM - 6:00 PM

Epidemiology Committee

Civic Room

5:30 PM - 7:00 PM

Diseases of Pet Birds Committee

Commonwealth Room

**WEDNESDAY, JULY 13**

7:00 AM - 11:00 AM

Board of Directors Meeting

Board Room

8:00 AM - 9:30 AM

Membership Committee

Civic Room



**1994 AAAP Symposium**  
**Respiratory Diseases of Broilers and Turkeys**  
*All sessions will be held in the Moscone Convention Center*

**Session I: The Avian Respiratory System in Health and Disease**

- 8:30 **Anatomy and Physiology of the Avian Respiratory System - M.R. Fedde**
- 9:00 **Avian Respiratory Defense Mechanisms, Injury and Repair - Martin Ficken**
- 9:25 **Avian Respiratory Immunity and Immunosuppression - Jagdev Sharma**
- 9:50 **Panel Discussion**
- 10:00 **BREAK**

**Session II: Selected Viral Respiratory Pathogens**

- 10:30 **Biology and Epidemiology of Infectious Bronchitis - David Cananagh**
- 11:00 **Newcastle Disease: Still a Worldwide Threat to Poultry - Daniel J. King**
- 11:15 **Virulence Assessment of Avian Influenza Virus - Max Brugh, Jr.**
- 11:30 **Current Understanding of the Infectious Laryngotracheitis Problem - James Guy**
- 11:45 **Panel Discussion**
- 12:00 **LUNCH**

**Session III: Selected Bacterial and Toxic Respiratory Pathogens**

- 1:30 **Pathogenesis of *Escherichia coli* and *Pasteurella multocida* Infections in Poultry - H. John Barnes**
- 2:00 **Pathogenesis of *Bordetella avium* Infections - J. Kirk Skeeles**
- 2:15 **Infectious Coryza: An Emerging Disease in Broiler Production - John Glisson**
- 2:30 **Environmental Respiratory Pathogens: Poultry House Gases and Dust - Jean Sander**
- 2:45 **Panel Discussion**
- 3:00 **BREAK**

**Session IV: Economic Impact and Management of Respiratory Disease**

- 3:30 **The Economics of Respiratory Disease in Poultry Meat Production - Calvin Anthony**
- 3:50 **The Influence of Breeder and Hatchery Management on Respiratory Diseases- Donna Hill**
- 4:10 **Current Management for the Prevention and Control of Respiratory Disease in Broilers Leonard Fussel**
- 4:30 **Current Management for the Prevention and Control of Respiratory Disease in Turkeys William Emory**
- 4:50 **Panel Discussion**
- 5:00 **Adjourn**



## AAAP ORAL PROGRAM

*All sessions will be held in the Moscone Convention Center*

MONDAY	SESSION 1 - Roger Harvey, Moderator	SESSION 2 - Tom Campi, Moderator
9:00 AM	James Pearson, D. Senne, B. Panigrahy, R. Webster <b>Avian influenza virus, subtypes H5N2 and H7N1, and the corresponding antibodies in ratites and other species</b>	Manuel Colmenares, M. De Rosa, S Leal, G. Paez <b>Pancreatic fibrosis in stunted chickens</b>
9:10 AM		Scott Fitzgerald, W. Reed <b>A suspected case of clinical western equine encephalitis in chickens</b>
9:20 AM	Max Brugh <b>Experimental infection of chickens and rheas with ratite-origin avian influenza viruses</b>	Mark Goodwin, A. Antillon <b>Massive necrotizing herpesvirus bursitis and thymusitis in broilers</b>
9:30 AM		H.L. Shivaprasad <b>Pathology of <i>Salmonella enteritidis</i> in chicken layers</b>
9:40 AM	Michael Perdue, J. Latimer <b>Comparison of the structures of H7 and H5 hemagglutinin proteins of avian influenza virus isolates from domestic poultry and ratites</b>	Craig Riddell <b>Chlamydiosis in rheas</b>
9:50 AM		Bernard Beckman, C. Howe, D. Trampel, M. DeBey, J. Richard, Y. Niyo <b><i>Aspergillus fumigatus</i> keratitis with intraocular invasion in 15 day old chicks</b>
10:00 AM	Richard Slemons, B. Byrum, D. Swayne <b>A possible role for proteolytic bacteria in avian influenza infections</b>	Donald Singletary, B. Cowen, A. Castro, T. Soman <b>Corona virus infection of guinea fowl</b>
10:10 AM		Gorica Rajcic-Spasojevic, D. Emery, D. Boeschen, R. Lippert, D. Straub <b>Congenital malformations in turkeys caused by inappropriate incubation temperature</b>



10:20 AM	DISCUSSION	Conrad Pope, E. Odor, M. Salem, J. Rosenberger, J. Gelb <b>The gross and microscopic lesions associated with the Delaware variant serotype of infectious bronchitis virus (IBV) isolated from broilers in 1992</b>
10:30 AM	<b>BREAK</b>  Eric Gingerich, Moderator	<b>BREAK</b>  Don Ritter, Moderator
11:00 AM	David Swayne, R. Slemons <b>Low pathogenic avian influenza viruses infect the brain without replicating in neurons</b>	Thomas Holder <b>The economic impact of feeding broiler feed with full level nicarb to breeders in full production</b>
11:15 AM	M. Suresh, J. Sharma <b>B lymphocyte tropisms and tissue distribution of hemorrhagic enteritis virus studied by in situ hybridization</b>	Tom Brown, N. Dale, M. Williams <b>Spiking mortality in broilers: effects of dietary fat, nicarbazine, enteritis and feed withdrawal on blood glucose</b>
11:30 AM	Holly Dressman, C. Dangler, T. Whittam <b>Evolutionary analyses of polymorphic regions within the avian infectious bronchitis virus (IBV) S1 gene</b>	William Colwell, L. Brooks Jr <b>Megatrends in Salmonella isolations over a 17 year period</b>
11:45 AM		Pedro Villegas, G. Avellaneda, R. Page <b>Immune status of Georgia broilers against Newcastle disease</b>
12:00 NOON	<b>AAAP AWARDS BANQUET ANA HOTEL, METRO I</b>  Mark Dekich, Moderator	<b>AAAP AWARDS BANQUET ANA HOTEL, METRO I</b>  Tami Kelly, Moderator
2:00 PM	Keyvan Nazerian, N. Yanagida <b>Expression of envelope gene of subgroup A avian leukosis virus in fowlpox virus and induction of neutralizing antibody</b>	Susan Lockaby, F. Hoerr, L. Lauerman <b>Virulence and tissue tropism of <i>Mycoplasma synoviae</i> in chicken embryos</b>
2:15 PM	Martin Sevoian, A. Bhogle <b>Detection and characterization of lymphokines and protective antigens of JMV-1 lymphoblastoid cell line</b>	Henry Fan, S. Kleven, M. Jackwood <b>Application of polymerase chain reaction with arbitrary primers to strain identification of <i>Mycoplasma gallisepticum</i></b>



2:30 PM	Robert Silva, J. Calvert, L. Lee <b>A simple immunoperoxidase staining technique to quantitate Marek's disease virus plaques</b>	David Ley, V. Gurevich, I. Walker <b>Identification and characterization of <i>Mycoplasma synoviae</i> immunogenic integral membrane proteins</b>
2:45 PM		Lloyd Lauerman <b>Biotinylated general mycoplasma probe for the efficient capture and purification of nucleic acids</b>
3:00 PM	<b>BREAK</b>	<b>BREAK</b>
	Birch McMurray, Moderator	Dennis Wages, Moderator
3:30 PM	Lucy Lee, S. Yoshida, N. Yanagida, K. Nazerian <b>Identification of a major protective epitope of Marek's disease virus glycoprotein gB.</b>	Maricarmen Garcia, M. Jackwood, H. Fan, S. Kleven, S. Levisohn <b>Comparison of the 16S - rRNA sequences of <i>M. iowae</i> strains</b>
3:45 PM	Richard Witter, C. Chen, H. Lillehoj, D. Ewert, L. Lee, A. Fadly <b>Immunohistochemical analysis of lymphocyte and viral antigens on cells from Marek's disease and retroviral lymphomas in chickens</b>	Roy Raymond, B. Abdelmoumen, B. Bernard <b>An enzyme-linked immunosorbent assay for detection of avian mycoplasmas in culture</b>
4:00 PM		Amer Silim, A. Kheyar, S. Reddy, D. Lee <b>The 64kDa polypeptide of <i>Mycoplasma gallisepticum</i> has two different epitopes responsible for growth inhibition and hemagglutination</b>
4:05 PM	Bruce Calnek, F. Moore, S. Bloom, R. Harris <b>Chromosomal aberration (1p+) in Marek's disease cell lines versus neoplastic transformation</b>	
4:15 PM		Marcus Head, S. Kleven, M. Jackwood, J. Glisson, M. Garcia <b>A serological diagnostic test for <i>Mycoplasma iowae</i> utilizing a dot immunobinding assay</b>
4:30 PM		Penelope Gibbs, R. Wooley, S. Kleven <b>The effect of complement on in vitro growth of virulent and avirulent strains of <i>Mycoplasma gallisepticum</i></b>



4:45 PM	Patricia Wakenell, P. Kass <b>Effect of virulent Marek's disease virus on serum chemistry values of HVT vaccinated or unvaccinated SPF chickens</b>	Carolyn Miller, H. Fan, S. Kleven <b>Comparison of selected <i>Mycoplasma synoviae</i> isolates by DNA fingerprinting</b>
5:00 PM		Ben Abdelmoumen, B. Roland, R. Raymond <b>A <i>Mycoplasma synoviae</i> specific DNA probe</b>
<b>TUESDAY</b>	<b>John Schleifer, Moderator</b>	<b>Frank Sterner, Moderator</b>
9:00 AM	Olufemi Fatunmbi, W. Reed <b>Identification and characterization of avian pox viruses by western blot analysis</b>	Frederick Hoerr, M. Putnam, A. Fadly <b>Reticuloendotheliosis manifested as neoplasia and mortality in broiler breeders. (case report)</b>
9:15 AM	Willie Reed, O. Fatunmbi <b>Characterization and immunogenicity of "variant" strains of avian poxviruses</b>	Aly Fadly, F. Hoerr, W. Reed, R. Witter <b>Isolation of reticuloendotheliosis virus from broiler breeder chickens experiencing lymphoid leukemia-like disease</b>
9:30 AM	Deoki Tripathy, W. Schnitzlein <b>Characterization of diphtheritic fowlpox virus isolates from previously vaccinated birds</b>	James Davis, A. Castro, M. Goodwin, J. De La Torre, E. Player, J. Doman, D. Fuchs <b>Arenavirus-like particles associated with enteritis in Georgia chickens</b>
9:45 AM	Susan Lloyd, E. Berkhoff, K. Kessler, M. Ficken <b>Characterization of a mycoplasma isolated from an ostrich and its pathogenicity in chickens and turkeys</b>	Bruce Singbeil, R. Ernst, P. Wakenell, A. Bickford, P. Woolcock, R. Chin <b>Early enteric reo virus infection associated with high mortality: challenge study results</b>
10:00 AM	Miguel Marquez <b>Control and eradication of <i>Mycoplasma synoviae</i> in a multi-age heavy breeder integration</b>	Roy Montgomery, W. Maslin, C. Boyle, D. Magee, A. Leard <b>Experiences with infectious agents isolated from a runting/stunting condition in broilers</b>
10:15 AM	Steven Clark, Dave Pyle <b><i>Mycoplasma gallisepticum</i> outbreak in commercial turkeys</b>	Robinette Gilbert, J. Sander, T. Brown <b>Oral lesions associated with copper sulfate toxicosis in commercial layers</b>



10:30 AM	AAAP BUSINESS MEETING	AAAP BUSINESS MEETING
	<b>Stan Kleven, Moderator</b>	<b>Steve Clark, Moderator</b>
1:30 PM	Hector Cervantes <b>Experimental infection of day-of-hatch broiler chicks with <i>Salmonella berta</i></b>	Alex Bermudez, G. Rottinghaus, D. Ledoux <b>Determination of the no effect level of moniliformin containing fusarium fujikuori culture material fed to chickens and turkeys</b>
1:45 PM	Theodore Kottom, L. Nolan, R. Wooley, P. Rosen <b>Comparison of the virulence and invasiveness of <i>Salmonella typhimurium</i> var Copenhagen from healthy and ill chickens</b>	Robert Norton J. Skeeles, J. Beasley <b>Etiological agents associated with liver foci in turkeys</b>
2:00 PM	David Henzler, W. Schlosser, D. Kradel, M. Nesselrodt, J. Mason <b>Variability associated with environmental sampling from <i>Salmonella enteritidis</i> in chicken layer flocks</b>	Martin Ficken, S. Breeding, M. Blakley <b>Hepatic necrosis of turkeys</b>
2:15 PM	Mazhar Khan <b>Utilization of <i>Salmonella</i> specific PCR in the <i>Salmonella enteritidis</i> reduction program</b>	David Hermes <b>A concurrent infection of turkey breeder hens with erysipelas and swine influenza (H1N1)</b>
2:30 PM	Jean Petter <b>Evaluation of phage type heterogeneity within characterized <i>Salmonella enteritidis</i> field isolates</b>	Ahmed Mutalib, M. Holland, J. Barnes <b>Use of ultrasound for diagnosis of osteomyelitis in turkeys</b>
2:45 PM	Richard Gast <b>Assessing the comparative virulence for chickens of <i>Salmonella enteritidis</i> phage type 4 and phage types isolated from poultry in the U.S.</b>	Robert Drousal, M. Rezvani <b>Green liver, synovitis and osteomyelitis in turkeys associated with <i>E. coli</i></b>
3:00 PM	<b>BREAK</b>	<b>BREAK</b>



	Sharon Hietala, Moderator	Jean Sander, Moderator
3:30 PM	Jubril Hassan, R. Curtis <b>The role of <i>Salmonella</i> antigens in cross protection against <i>Salmonella</i> serotypes induced by vaccination</b>	Geraldine Bayyare, J. Beasley, W. Huff, N. Rath, J. Balog <b>The incidence of synovitis, osteomyelitis, and leg problems in turkeys challenged with suspected L-form revertants of <i>Bacillus</i> and <i>Staphylococcus</i> species</b>
3:45 PM	J. Lloyd Spencer, M. Garcia <b>Increased resistance to cecal colonization by <i>Salmonella enteritidis</i> and <i>Campylobacter jejuni</i> in chickens fed vermicompost</b>	F.W. Pierson, C. Domermuth, W. Thompson, R. Boyd <b>Immunoexposure profiles of turkey flocks experiencing mortality due to colibacillosis</b>
4:00 PM	Scott Gillingham, R. Julian, C. Gyles <b>An in vitro trial to observe the application of a commercial defined direct fed microbial product to competitively exclude <i>Salmonella enteritidis</i> PT8 in broiler chickens</b>	Lisa Newberry, J. Skeeles <b><i>Staphylococcus aureus</i> and other gram + infections associated with acute virulent hemorrhagic enteritis in growing turkeys</b>
4:15 PM	Frank Edens, I. Casas, C. Parkhurst <b>Effect of in ovo <i>Lactobacillus reuteri</i> on <i>Salmonella typhimurium</i> and <i>Escherichia coli</i> challenged chickens</b>	Nicholas Primm <b>Field studies of <i>Bordetella avium</i> in breeder and meat turkeys using isolation in conjunction with a commercial ELISA serology system</b>
4:30 PM	Chinling Wang, M. Scruggs, K. Stallings <b>The efficacy of sodium carbonate peroxyhydrate, trisodium phosphate or lactic acid for reduction of <i>Salmonella</i> on chicken skin</b>	Radivoje Spasojevic, J. Newman <b>Evaluation of an ELISA test developed by KPL for <i>Bordetella avium</i> infections in turkeys</b>
4:45 PM	Richard Wooley L. Nolan, P. Gibbs, J. Brown <b>Characteristics of pathogenic avian <i>Escherichia coli</i></b>	Donald Reynolds <b>Evaluation of a recombinant Newcastle disease vaccine for use in turkeys</b>
5:00 PM	Peter Holt, N. Macri, R. Porter <b>Microbiological analysis of the early <i>Salmonella enteritidis</i> infection in molted and unmolted hens</b>	Richard Yamamoto, S. Zhao, R. Chin <b>Detection of <i>Mycoplasma meleagridis</i> in clinical samples using polymerase chain reaction</b>



5:15 PM	Robert Porter, N. Macri, P. Holt <b>Light and electron microscopic study of acute <i>Salmonella enteritidis</i> infection in molted and unmolted hens</b>	
<b>WEDNESDAY</b>	<b>John Donahoe, Moderator</b>	<b>Lanny Howell, Moderator</b>
9:00 AM	David Cavanagh, J. Li, J. Cook <b>Variation exhibited by avian pneumoviruses</b>	Michael Ruff, G. Wilkins <b>Factors affecting sensitivity testing of anticoccidial drugs</b>
9:15 AM		David Rives, S. Stringham, L. Munger <b>Effect of the ingestion of the red imported fire ant (<i>Solenopsis invicta</i> Buren) on turkey poults</b>
9:20 AM	Ellen Collison, L. Wang, E. Ebian, M. Zhou <b>Recombination is a mechanism for the evolution of IBV</b>	Robert Droual, T. Farver, A. Bickford, R. Chin <b>Relationship of age, sex and concurrent gastrointestinal disease to necrotic enteritis in turkeys</b>
9:30 AM		
9:40 AM	Kristi Moore, M. Jackwood <b>Infectious bronchitis virus: In vitro RNA recombination</b>	Ronald Lippert, D. Emery, D. Straub, G. Spasojevic, M. Edman <b>Field evaluation of cell-cultured and spleen propagated hemorrhagic enteritis live-virus vaccines using a USDA licensed ELISA</b>
9:45 AM		
10:00 AM	Jack Gelb, C. Keeler, K. Reed, W. Nix <b>Evolution of infectious bronchitis virus in chickens raised on the Delmarva Peninsula as determined by virus-neutralization, cross-protection, and S-1 sequence analysis</b>	Darrell Trampel, N. Jensen, L. Hoffman <b>Chicken cecal spirochetosis</b>
10:15 AM		Jagdev Sharma, K. Karaca <b>Activation of macrophage function by an avian cytokine</b>
10:20 AM	Syed Naqi, W. Jia, K. Karaca, A. Andriguetto, B. Bauman <b>Genetic and antigenic characteristics of non-Massachusetts-type IBV isolates from the 1940's</b>	
10:40 AM	<b>BREAK</b>	<b>BREAK</b>



	<b>Yan Ghazikhanian, Moderator</b>	<b>Eva Wallner-Pendleton, Moderator</b>
11:00 AM	Mark Jackwood, D. Hilt <b>Sequence analysis of the S1 glycoprotein gene of a variant infectious bronchitis virus</b>	Jean-Pierre Vaillancourt, A. Elfadil <b>Risk factors associated with cellulitis in broilers</b>
11:15 AM	Carol Meteyer, D. Docherty, J. Franson, D. Senne <b>Histologic lesions and their correlation with virus isolation in an outbreak of neurotropic velogenic newcastle disease in cormorants</b>	Tsang Lon Lin <b>Pathologic and bacteriologic study of scabby hip lesions in broiler chickens I. elephant hide</b>
11:30 AM	Daniel King <b>Newcastle disease virus (NDV) pathotypes: A comparison of recent field isolates with reference NDV strains</b>	Teresa Morishita, L. Lowenstine, D. Hirs, D. Brooks <b>Characterization of <i>Pasteurella multocida</i> isolated from birds of prey</b>
11:45 AM	Ching Ching Wu <b>Single strand conformation polymorphism for differentiation of infectious bursal disease virus</b>	I-Hsin, N. Cheng, J. Glisson, C. Wang <b>Characterization of monoclonal antibodies for <i>Pasteurella multocida</i></b>
12:00 PM	Holly Sellers, P. Villegas, M. Jackwood <b>Production of IBDV PCR primers specific for strains STC, OH and var A</b>	Hossein Sagha, J. Glisson <b>Direct effect of <i>P. multocida</i> endotoxin on cultured chicken embryo cells</b>
12:15 PM	Daral Jackwood, R. Jackwood <b>Diagnosis of infectious bursal disease viruses: differentiation of serotypes and subtypes using restriction enzyme analysis</b>	Annabel Gonzales, J. Glisson <b>Transposon mutagenesis of <i>Haemophilus paragallinarum</i> with Tn916</b>
	<b>BREAK</b>	<b>BREAK</b>



# AAAP POSTER PROGRAM

1. Robert F. Silva, Jay G. Calvert, Lucy F. Lee:  
**A simple immunoperoxidase staining technique to quantitate Marek's disease virus plaques.**
2. Patricia S. Wakenell, Phil Kass:  
**Effect of virulent Marek's disease virus on serum chemistry values of HVT vaccinated or unvaccinated SPF chickens.**
3. Celina Buscaglia, Pablo Nervi:  
**Isolation of three very virulent strains of Marek's disease virus in Argentina.**
4. Lucy F. Lee, Shitego Yoshida, Noboru Yanagida, Keyvan Nazerian:  
**Identification of a major protective epitope of Marek's disease virus glycoprotein gB.**
5. Kelli L. Hiett, Margaret A. Myszewski, Norman J. Stern, Richard J. Meinersmann:  
**Molecular characterization of differences of flaggellin in a congenic pair of *Campylobacter jejuni*.**
6. Richard J. Meinersmann, Christian A. Khoury:  
**Efficacy of an oral vaccine against *Campylobacter jejuni* in chickens.**
7. Antonio P. Ferreira, Toyoko Watanabe Sato, Tomomasa Yano:  
**Detection of protease and its possible role in chicken *Escherichia coli* infection.**
8. Tom P. Brown, Mark E. Williams, Stephan G. Thayer:  
**Pathogenicity of lactose-negative *E. coli* isolate in turkey poults: Intravenous vs. aerosol challenge and broth vs. in ovo cultivation.**
9. Richard B. Rimler:  
**Cross-protection against *Pasteurella multocida* in turkeys with laboratory-grown cultures.**
10. Kakambi V. Nagaraja, Lois A. Bichler, Vaithianathan Sivanandan, David A. Halvorson:  
***Salmonella enteritidis* (SE) in eggs, cloacal swabs and internal organs of laying hens experimentally infected with SE.**
11. Lisa K. Nolan, Catherine W. Giddings, Richard E. Wooley, John Brown:  
**Distribution of *invA*, *pagC*, *cvaC*, and *spvC* genes among *Salmonella* isolates of animals with emphasis on poultry isolates.**
12. Hector M. Cervantes:  
**Effect of Polyvalent inactivated vaccine type on the incidence of false-positive rapid serum plate test reactions for Mg and Ms.**



13. Nathaniel L. Tablante, Jean-Pierre Vaillancourt, Lloyd J. Weber:  
**An outbreak of hepatitis-liver hemorrhage syndrome in multi-age commercial layer operation**
14. Eric J. Lovell, Jeannine M. Harter-Dennis:  
**Findings from four cases of cannibalism in two week old boilers.**
15. Mark A. Goodwin, John Brown:  
**Persistence of a geographic locus for respiratory cryptosporidiosis in Georgia broiler chickens.**
16. Nathaniel L. Tablante, Richard J. Julian, Jean-Pierre Vaillancourt:  
**Hepatitis-liver hemorrhage syndrome in commercial laying hens: a survey of Ontario egg producers.**
17. Nathaniel L. Tablante, Jean-Pierre Vaillancourt:  
**A Temporo-spatial mortality study in a 20,000-hen layer barn.**
18. John Brown, Mark A. Goodwin, Denise I. Bounous:  
**The relationship of blood glucose values to idiopathic "spiking mortality" syndrome in chickens.**
19. Martine Boulianne, E. James Squires, Richard J. Julian:  
**Effect of ante mortem exposure to cold temperature on meat coloration of broiler chicken carcasses.**
20. Tom P. Brown, Mark E. Williams:  
**Copper sulfate-induced oral lesions in broiler chickens: Effect of hydration and particle size.**
21. Seyed M. Mirsalimi, Omid Rahimzadeh, Mohammad Moafi:  
**Effects of various diets on the occurrence of ascites on normal and ascites sensitive chickens from a primary meat-type breeding flocks.**
22. Kevin L. Kessler, Steve Breeding, Andy McRee, Peter Ferket, Martin Ficken:  
**Effect of protein restriction and a urease inhibitor during the brooding phase on the incidence of spontaneous turkey cardiomyopathy.**
23. A. Singh Dhillon:  
**High mortality in young ostriches.**
24. Joe N. Beasley, Gerry R. Bayyari, William E. Huff:  
**Study of green livers in turkeys.**
25. H. John Barnes, Gina M. Elias, David v. Fernandez, Joel W. Coleman, R. Shannon Jennings:  
**Growth depression in tom turkey flocks produced on farms in continuous production.**



- 
26. George N. Rowland, Jeanna L. Wilson, Royce E. Roberts, Jean E. Sander, John R. Glisson:  
**Conformational abnormalities of the spinal column in male broiler breeders.**
  27. Yan Ghazikhanian, Robert Droual, Arun Bahl, Thomas Bryan, Barry Kelly, Patrick McCaskey,  
George Rowland, Becky Tilley, Tami Kelly, Ken Takeshita:  
**Proximal femoral pathology, appropriate terminology.**
  28. H.L. Shivaprasad:  
**The differences between articular gout and visceral gout in chickens (birds).**
  29. H.L. Shivaprasad:  
**Normal embryonic cartilage of ostriches resembling tibial dyschondroplasia of poultry.**
  30. Scott D. Fitzgerald:  
**An acute outbreak of Leucocytozoonosis in domestic ducks.**
  31. Anilton C. Vasconcelos, Kenneth M. Lam:  
**Apoptosis in chicken embryo induced by the infectious bursal disease virus.**
  32. Kenneth M. Lam, Anilton C. Vasconcelos:  
**Apoptosis induced by Newcastle disease virus.**
  33. Mark A. Goodwin, Debrah W. Fuchs, E. Craig Player, Jack Hynes, Michael Polk, Linnea  
Newman:  
**Comparison of two formalin substitutes to 10% neutral buffered formalin for the fixation  
of chicken organs. I. A light microscopic study.**
  34. Andrea M. Miles, Vivian W. Doelling, Richard P. Gildersleeve, Patricia V. Phelps, Catherine  
A. Ricks, Julius K. Tyczkowski, Craig E. Whitfill:  
**Efficacy of an immunostimulant administered in ovo.**
  35. Martin Sevoian, Kesuo Fan:  
**Development of a biodegradable slow-release delivery system for drugs, and vaccines.**
  36. Terence L. Pertile, Kemal Karaca, Jagdev M. Sharma, Mary M. Walser:  
**The effect of activated macrophages on chicken spleen cell mitogenesis.**
  37. Narayan C. Rath, Geraldine R. Bayyari, Janice M. Balog, William E. Huff:  
**Identification and characterization of Interleukin-6 in chicken ascites fluid.**
  38. Amer N. Silim, Daniel Venne, Diane Frenette:  
**Quantitation of antibodies in hens, yolks, chicks and residual yolk in chicks at day of  
hatching by ELISA.**
  39. Vaithianathan Sivanandan, David A. Halvorson, Sally Noll:  
**Nutritional immune modulation of normal and immunocompromised chickens.**
-



- 
40. Henry D. Stone:  
**In ovo vaccination of chick embryos with experimental NDV oil emulsion vaccines.**
  41. Chinta M. Lamichhane, J. Hale, R.P. Chin, S.K. Hietala, M. Blankfard, T. Isakson:  
**Development of a highly specific and sensitive ELISA for the detection of antibody to turkey Coryza.**
  42. Sudhir K. Reddy, Pratik Singh, Amer N. Silim, John Newman:  
**Immunological characterization of mycoplasmal antigens.**
  43. Jean E. Sander, Tiande Cai:  
**Biochemical characteristics of poultry carcasses during fermentation.**
  44. Martine Boulianne, E. James Squires, Richard J. Julian:  
**Effect of chronic ante mortem hypoxia on meat coloration of broiler chickens.**
  45. Javier Martínez, Perry L. Habecker, Sherrill Davison, Robert J. Eckroade, Charles E. Benson:  
**Ovarian adenocarcinoma in a backyard layer flock.**
  46. Davis J. Myers, Robert A. Heckert, Lorne Jordan:  
**The diagnosis and incidence of foreign avian diseases in Canada 1983-1993.**
  47. Loyd D. Rowe, Ross C. Beier, Magdy I. A. El-Aziz Nasr, Marcel H. Elissalde, Larry H. Stanker:  
**Detection of the avian coccidiostat halofuginone in chicken serum by a monoclonal-based immunoassay.**
  48. Jean-Pierre Vaillancourt, Scott Gillingham, Lloyd Weber, Helen Wojcinski, Contrad Van Dijk, Nathaniel Tablante, Mike Joyce, Arpy Ferencz, Path Mahattan:  
**The Poultry Study Group: A partnership in continuing education.**
  49. Marcel H. Elissalde, Ross C. Beier, Loyd D. Rowe, Larry H. Stanker:  
**A monoclonal-based Elisa for salinomycin in poultry liver.**
  50. Thaddeus K. Graczyk, Michael R. Cranfield, Clive J. Shiff:  
**Development of a serologic diagnostic test for avian malaria.**
  51. Thaddeus K. Graczyk, Michael R. Cranfield, Melvin L. Shaw, Clive J. Shiff:  
**Hematologic characteristics of avian malaria cases in African black-footed penguins (*Spheniscus demersus*).**
  52. Akbar Ali, Donald Lee Reynolds:  
**Primary cell culture of turkey poult intestinal epithelial cells.**
  53. John W. Latimer, Michael L. Perdue, Joan Beck:  
**Sequence analysis & detection of influenza A sub-populations.**
-



54. James S. Guy, John Barnes, Lynda G. Smith, Meliton N. Novilla:  
**Myocarditis, cardiomegaly, and ascites are sequellae of experimentally-induced alphavirus infections in chickens.**
55. Daniel Weinstock, James S. Guy, M. Mitsu Suyemoto, H. John Barnes:  
**Alterations in immune response of turkey poults due to infection with alphavirus (EEE or HJ virus).**
56. Carol J. Cardona, Keyvan Nazerian, Noboru Yanagida, Willie Reed:  
**Molecular characterization of the nexon gene of hemorrhagic enteritis virus.**
57. Lloyd H. Lauerman, Phillip H. Klesius:  
**Fast Elisa for diagnosis of infectious bronchitis virus.**
58. Gloria E. Avellaneda, Pedro N. Villegas, Mark W. Jackwood:  
**In vivo recombination of infectious bronchitis virus.**
59. Reynaldo S. Resurreccion, Martin A. Smeltzer:  
**Detection of infectious bronchitis antigen in inoculated embryonating eggs and infected broilers.**
60. Vinay K. Dhama, Frederick S.B. Kibenge:  
**Functional characterization of VP1 of infectious bursal disease virus.**
61. Malliga M. Nagarajan, Frederick S.B. Kibenge:  
**Analysis of terminal sequences of serotype 2 infections bursal disease virus genome segments A and B: A comparison with serotype 1 strains.**
62. Stephanie A. Mengel-Whereat, David B. Snyder:  
**Characterization of lethal and highly pathogenic strains of IBDV with monoclonal antibodies.**
63. Alan P. Avakian, Peter Wyeth, Craig E. Whitfill, Catherine A. Ricks, Eid H. Haddad, Nick Chettle:  
**Development of immunity in broilers to IBDV following in ovo vaccination with a novel live IBDV vaccine (BDA-IBD-BLEN).**
64. Tom P. Brown, Pedro N. Villegas, Phil D. Lukert:  
**Pathogenicity of serotype 2 IBD virus and coronavirus isolated from turkey poults.**
65. Claudia M. Marin, Pedro N. Villegas:  
**Pathogenicity of field isolates of Newcastle disease virus.**
66. Damavarapu N. Reddy, David E. Junker, Jr.:  
**Protective immunity induced by a recombinant fowlpox vaccine virus expressing Newcastle disease virus glycoproteins.**



67. Anwar D. Maraqa, Donald L. Reynolds:  
**The determination of those proteins of Newcastle disease virus involved in the cellular immune response.**
68. Masoud S.A. Shapouri, Diane Frenette, Ali Kheyar, Amer Silim:  
**Studies of the biological role of sigma B protein of avian reovirus using IgG monoclonal antibodies (MAbs).**
69. Manuel E. Colmenares, Morella DeRosa, Gladys Medina, Juliet Siger:  
**Isolation of the Venezuelan equine virus in broiler chickens exhibiting signs of nervousness.**

