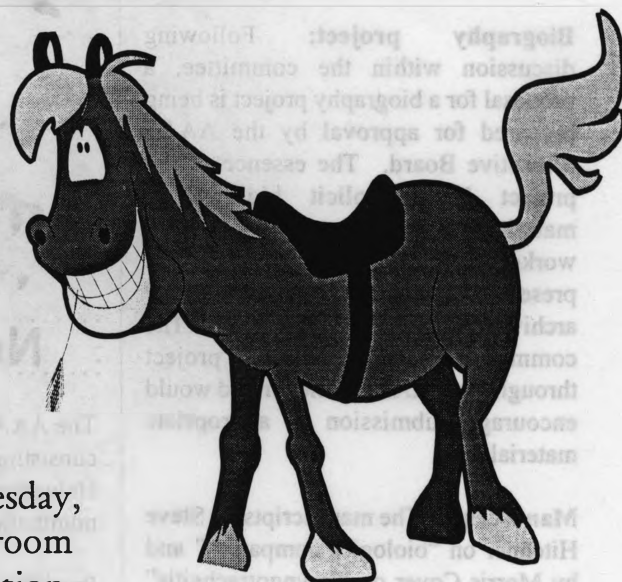


❖ AAAP SUMMER NEWSLETTER ❖

June 1996

DON'T FORGET



The meetings of the AAAP Board of Directors will be all day Friday, July 19 and Saturday, July 20 and again on Wednesday Morning in the Hyatt Regency. All members are welcome to attend.

The AAAP Business Meeting will be on Tuesday, July 23 at 10:30 am in room 105/106 in the Convention Center

The AAAP Awards Luncheon will be Monday, July 22 in the Regency C Room in the Hyatt Regency. Tickets are available from the business office.

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

SPECIAL OCCASION

1997 will mark the 40th anniversary of AAAP and the recognition of Infectious Bursal Disease. So mark your calendars and plan to attend this very special meeting in Reno in 1997.

The occasion will also be recognized with the publication of a history article in Avian Diseases. The article, by Dr. Hiram Lasher, et al., will be about the first 20 years of IBDV.

Any suggestions on how to celebrate this event would be greatly appreciated. Please contact Dr. Eckroade with ideas.

inside...

1996 Annual Meeting Information
1996 AAAP Committee Reports
Meeting Announcements

1996 Symposium
1996 Scientific Program
1996 Committee Meetings

COMMITTEE REPORTS

History of Avian Medicine

Biography project: Following discussion within the committee, a proposal for a biography project is being prepared for approval by the AAAP Executive Board. The essence of the project is to solicit biographical materials and photos of prominent workers in avian medicine, past and present, for deposit in the AAAP archives at Iowa State University. The committee would promote the project through the AAAP newsletter and would encourage submission of appropriate materials.

Manuscripts: The manuscripts by Steve Hitchner on "biologics companies" and by Morris Cover on "laryngotracheitis" have been finalized and submitted to Avian Diseases for publication. Six additional manuscripts have been formally solicited and at least some of the identified authors have indicated substantial progress on their articles during the past year.

MD Symposium: The committee has been involved, indirectly, in a special historical emphasis program to be conducted at the 5th International Symposium on Marek's Disease to be held in East Lansing, September 7-11, 1996. The symposium will feature a "legacy" workshop to discuss the seminal events in MD that occurred 1960-1972. In addition, there will be a historical keynote lecture and a number of historical posters. A videotape will be produced based on the preceding elements plus interviews with selected individuals. The unedited tape will be preserved in the AAAP archives as a historical document. An edited version will be available to the public. AAAP has provided partial financial support for this project.

Richard Witter, Chair



Nominations

The AAAP Nominating Committee consisting of Drs. Don Waldrip, Dave Halvorson and Bill Chase submit in nomination for 1996-97 the following:

President - Dr. Gregg Cutler

President-elect - Dr. John Glisson

Secretary-Treas - Dr. Robert Eckroade
Dir-at-large - Dr. Bruce Stewart Brown

Don Waldrip, Chair

Dr. John P. Donahoe has also been nominated for Director-at-large.

Tumor Viruses

The National Broiler Council "REV Task Force" led by Dr. Ken Takeshita of Select Laboratories, Inc. was successful in adding the issue of assurance for freedom of poultry vaccines from REV on the agenda of the USDA-APHIS Veterinary Biologics (VB) Public Meeting held last August in Ames, IA. Some vaccine manufacturers have voluntarily adopted protocols using more specific tests than that required by current regulations. Meanwhile, VB is in the process of reviewing guidelines that require all master seeds to be tested by either hyperimmunization of birds, PCR, or serology/virus isolation with a proposed

compliance date of December, 1996.

Several members of our committee have been involved in the diagnosis of subgroup J ALV in broiler breeder flocks in the USA. REV was implicated as the cause of tumor mortality in an endangered species, Attwater's prairie chickens in Texas.

At the committee meeting in Louisville, the preliminary proposal for the avian Tumor Viruses Symposium to be held in conjunction with the 1997 AVMA/AAAP Meeting will be discussed. Five sessions are proposed: I) Differential diagnosis of avian lymphomas, problems encountered by poultry disease diagnosticians, and new approaches for the diagnosis of avian lymphomas; II) Marek's disease, clinical aspects and current field problems, current and future strategies for control of Marek's disease; III) Avian leukosis, an overview of the problems and progress in reduction of ALV infection in chickens, current status of epidemiology, diagnosis and control of subgroup J ALV in heavy breeds, and future strategies for control of ALV; and IV) Reticuloendotheliosis, current status of REV infection in chicken and turkey breeders, epidemiology and control of REV infection in chicken and turkey breeders, epidemiology and control of REV infection in chickens and turkeys, and methods for detection of REV in poultry biologics; V) New emerging neoplastic conditions, histiocytosis in broilers and peripheral neuritis.

Members of the AAAP are encouraged to submit any suggestions to the chairman of Tumor Viruses Committee, Dr. Aly M. Fadly at USDA, ARS, Avian Disease and Oncology Laboratory, 3606 East Mount Hope Road, East Lansing, MI 48823; phone 517-337-6828; fax 517-337-6776

Aly M. Fadly, Chair

Report of the Editor

Volume 39 (1995) of Avian diseases was 930 pages, that included 90 articles, 14 research notes, 24 case reports and 1 pet bird case report. This is the same number of pages as in 1994 (927) but a 15.3% decrease in the number of printed manuscripts compared to volume 38 (1994).

During the past year we received 170 manuscripts, 10 less than in 1994. Approximately 9.5% were rejected, 18% were accepted and 60% were returned to the author(s) for revision. Our final acceptance rate remains at approximately 75%.

The Editorial Board continues to do an outstanding job of expert manuscript review and deserves the full support and recognition of the membership.

Louis van der Heide, Editor

Reference Antisera

The list of commercially available avian diagnostic reagents has been updated and will be available to the AAAP membership in the very near future.

A standard Newcastle antiserum has been produced and will soon be available for distribution.

Information on both of these items will be published in the AAAP Newsletter.

Bill Chase, Chair

Animal Welfare

During the meeting held at the Southeastern Poultry and Egg Association Trade Show in Atlanta in January, the committee agreed to take a proactive role in making the AAAP and

its membership aware of the issues confronting the poultry industry. In order to achieve this goal the following subcommittees were formed: Dr. T.Y. Morishita (who is the AAAP's representative in the AVMA Animal Welfare Committee) was appointed to develop a database/reference library on poultry welfare issues. Doctors C.E. Miller and D.H. Erbeck were appointed to identify and examine issues associated with welfare of poultry used for research. Doctors J. A. Linares and M.A. Hammarlund were appointed to report on the welfare concerns of commercial layers, and Doctors J.E. McCarty and A.G. Rosales were appointed to examine the current and potential welfare problems associated with Broilers and Broiler Breeders. These subcommittees will report on their progress and liaison with other organizations at the next meeting in Louisville, KY. It was also agreed that a Symposium on Poultry Welfare will help to increase awareness among the AAAP membership. Doctors M.A. Hammarlund and A.G. Rosales will present a tentative agenda to the Board of Directors of the AAAP in Louisville and request a date for this symposium.

The Board of Directors of the AAAP approved a recommendation of this committee and on 4/15/96 expressed to the AVMA our deep concern about the AVMA's endorsement of a Spay Day coordinated by the Doris Day Animal League. Like other veterinary practitioner groups our position was to support a Spay Day initiative, however, we objected to the AVMA's collaboration with an organization known for advocating animal rights.

Dr. John Schleifer who has actively pursued contributions from the industry for a poultry welfare video has recommended to cancel the project due to insufficient funds. Although all organizations contacted agreed on the importance and potential benefits of this video most of them are experiencing a period of economic hardship (in the

broiler industry net returns for 1996 are expected to be at best near breakeven).

Doctors Tony Pescatore (University of Kentucky) and William Chase (Kestrel, Inc) have been invited to the next meeting of this committee to share their views regarding the present and future of poultry welfare in the U.S.

Gregorio Rosales, Chair

Education

Revision and Production of slide study sets

Slide set #8 (Common Noninfectious Disorders of the Skeleton of domestic chickens) has been reviewed by Dr. R. Julian. He is also currently working on three different new sets related to cardiovascular diseases.

Drs. H.L. Shivaprasad and R.P. Chin have produced a set on "Pullorum Disease and Fowl Typhoid".

Other AAAP members are currently revising or producing slide sets.

Results of a survey submitted to all members of the Education Committee

Twenty-six of the 38 members (68.4%) of the 1995-96 Education Committee responded to the survey. This survey included 7 questions related to the mission statement of the Committee.

Mission Statement: To develop, evaluate, and recommend to the Board of Directors the most effective methods of instruction and teaching materials that will provide for some of the continuing education needs of AAAP members and to promote the instruction of poultry medicine.

1. Respondents were requested to identify topics that should be the object of slide study sets. They were presented with a list of topics already covered in existing study sets. Over 30 additional subjects were identified. Eight topics were

recommended by at least three people: turkey hemorrhagic enteritis; Bordetellosis (Turkey Coryza); Ornithobacterium rhinotracheale infection in turkeys; Histomoniasis/protozoal diseases; Avian influenza; vaccination techniques; external parasites; Avian mycology.

2. Respondents were asked whether they supported the following ideas:

Creation of a directory of topics with the names and coordinates of individuals recognized in these fields (these people would be asked to contribute to a North American network that could be accessed by poultry instructors from any institution or organization). Twenty-two respondents (85%) supported this idea.

Creation of a newsletter dedicated to providing information relevant to teaching poultry related topics (teaching methodologies, practical examples, information on where to obtain teaching material, etc.). 54% supported the idea.

Creation of a World Wide Web site providing the same information available in the newsletter project, as well as providing a forum for the continuous exchange of ideas related to teaching poultry diseases. 65% were supportive.

3. When asked about the role the committee should have in the area of multi-media autotutorial programs, less than half of the respondents (42%) felt that the committee should contribute by actively seeking funds for the production of such material. However, the majority agreed that the committee should work with people developing multi-media programs in order to standardize the production of such material (58%), identify a list of topics that should be given priority (58%), and for the distribution of these programs (69%).

4. Finally, 89% of respondents were in favor of holding a forum on poultry medicine/disease instruction for people involved in teaching or continuing education.

Meeting in Louisville

Detailed results of the survey will be discussed in Louisville. The main objective of the meeting will be to determine which issues should be tackled by the committee, how, and when. All AAAP members are welcome to submit comments prior to the meeting on topics related to the survey or to the Education Committee to the Chair of the committee (Jean-Pierre Vaillancourt, FAE/CVM, North Carolina State University, 4700 Hillsborough St, Raleigh, NC 27511; Phone (919) 829-4330; FAX: (919) 829-4464; e-mail:jp_vaillancourt@ncsu.edu). All members are also invited to participate in the meeting to be held in the SENECA room in the Hyatt Regency Hotel between 7:00 am and 8:15 am on Monday, July 22.

Jean-Pierre Vaillancourt, Chair

SCAD

The Southern Conference on Avian Diseases (SCAD), beginning in 1997, will meet in conjunction with the Southern Poultry Science Society in Atlanta the Monday and Tuesday preceding the Southeastern Poultry and Egg Association International Poultry Exposition. This change is being instituted to provide a broader range of topics for the audience and to encourage greater attendance and participation.

1996 NEBRASKA POULTRY INDUSTRIES' PERSON OF THE YEAR

Dr. Eva Wallner-Pendleton, veterinarian and associate professor of veterinary and biomedical sciences at the University of Nebraska-Lincoln, was named Industry Person of the Year. She serves the poultry industry through UNL teaching, Cooperative Extension and research programs. Dr. Pendleton has played an active role in educational programs and workshops to benefit poultry producers. She has also been the author or co-author of many publications, proceedings and scientific abstracts.

Dr. Pendleton's professional accomplishments include: Diplomate, American College of Poultry Veterinarians, 1992; Service Award, program chairperson, North Central Avian Disease Conference, 1993; member of Avian Diseases Editorial Committee, 1994; and member of the Board of Directors of the American Association of Avian Pathologists, 1991-92.



MEETINGS

The 1996 Poultry Science Association Annual Meeting and Expo - will be held July 8-12, 1996 in Louisville, Kentucky at the Galt House Hotel. A pre-meeting symposium entitled "Genetic Selection-Strategies for the Future" will be held July 7-8. Please contact PSA headquarters at 1111 N. Dunlap Ave, Savoy, IL 61874. Phone (217) 356-3182; FAX (217) 398-4119; E-Mail psa@adsa.org.

The AAB Annual Conference and Expo - will be held August 27-31, 1996 in Tampa, Florida. The emphasis for the 1996 program will be on surgery, practice management overviews and reviews of topics; diagnostic tests; ratites; neurologic diseases; wild and zoological species including passerines, waterfowl, raptors, and other captive species; and new

technologies and research. For further information contact the AAV Conference Office, 2121 So. Oneida St, Ste 325, Denver, CO 80224. Phone 303-756-8380, Fax 303-759-8861; E-mail AAVConfOfc@AOL.COM

The 5th International Symposium on Marek's Disease - will be held in East Lansing, Michigan on September 7-11, 1996. The meeting is co-hosted by the Avian Disease and Oncology Laboratory and Michigan State University. For more information, contact Dr. R. L. Witter, USDA/ARS/ADOL, 3606 E. Mt. Hope Rd., East Lansing, MI 48823.

The 47th North Central Avian Disease Conference and Symposium - on Making and Evaluating Health Management Decisions will be held

September 29 - October 1, 1996 in Columbus, OH. ACPV will hold a workshop on September 28th entitled "Using computers to Facilitate Health Management Decisions and Increase Your Expertise and Efficiency". Please contact Dr. Richard Slemons at (614) 292-1206 for details.

The XI Panamerican Congress of Veterinary Sciences - will be held October 21-25, 1996 in the city of campo Grando, Capital of the State of mato Grosso do Sul, Brazil. For more information, please contact the PANVET organizing committee, Av. Afonso Pena, 2386- Ed. Dolor de Andrade, 8 andar, sala 84, Campo Grande, MS, Brazil 79002-074. Phone 55 67 724 7071; Fax 55 67 383 4371.

The American Association of Zoo Veterinarians - will hold their annual conference at the Sheraton Beaugarrvilla in Puerto Vallarta, Mexico

1996 Tom Newman Memorial Award

Nominations are being accepted for the prestigious Tom Newman Memorial Award for 1996.

The award is presented to the living authors who, in the opinion of the Award Committee of the British Poultry Breeders and Hatcheries Association Ltd., has made the most important research contribution to any branch of science which will benefit poultry husbandry and which has been published during the previous five years. Nominations should be accompanied by five copies of the paper/papers, on a single research topic, which must be in English or at least have an English summary, and a supporting case from the nominator, setting out the reasons why the particular nomination has been put forward. No self nominations will be accepted.

The closing date for nominations is July 5, 1996 but can be extended until August 5, 1996.

The award itself, which consists of a fine silver medal and cheque for £500 will be presented in the Members' Dining Room of the House of Commons, in London on Tuesday, December 3, 1996. Send nominations to Lisa Hartmann, British Poultry Breeders and Hatcheries Association Ltd., 7th Floor, Imperial House, 15-19 Kingsway, London, WC2B 6UA, United Kingdom.

from November 3-8, 1996. It will be hosted by the Guadalajara Zoo and co-hosted by the Asociacion de Parques Zoológicos, Criaderos y Acuarios de la Republica Mexicana. Workshops will be held on November 2 in Guadalajara at the Universidad Autonoma de Guadalajara Escuela de Biología. The Scientific program chair is Dr. Peregrine Wolff (612-431-9361) and the workshop/wetlab chair is Dr. Bob Cook (718-220-7105).

The U.S. Animal Health Association will sponsor the 4th International Symposium on Avian Influenza - to be held at the University of Georgia Continuing Education Center, Athens, GA on May 28-31, 1997. For more information, contact Dr. David Swayne, USDA, ARS, Southeast Poultry Research Lab, 934 College Station Road, Athens, GA 30605. Phone 706-546-3433; Fax 706-546-3151; e-mail dswayne@uga.cc.uga.edu

The XIth Congress of the World Veterinary Poultry Association - will be held August 18-22, 1997 in Budapest, Hungary. One of the major objectives of this Congress will be to "Bridge the Gaps". This means addressing the problems associated with the transfer of knowledge from the molecular biology research laboratory to the producer and the professional in the field. A second "gap" is the one between the technology and knowledge of the developed countries and that of areas which are struggling. The organizers will have this focus in mind when producing the final program of scientific sessions and workshops. Enjoyable social programs will also be arranged. For more information, please contact: Hungarian Academy of Sciences, Office of 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.

Dr. Patricia White joins The USDA Animal Production Food Safety Program

The Animal Production Food Safety Program (APFSP) within the U.S. Department of Agriculture provides agency leadership in addressing food safety concerns associated with animal production, transportation, marketing and pre-slaughter preparation of livestock and poultry. Dr. White joined APFSP in February, 1996 as the poultry program specialist. Dr. White obtained her veterinary degree and a Master's in Preventive veterinary Medicine from the University of California, Davis. She joined the U.S. Department of Agriculture in 1994 assisting in the SE Pilot Project/SE Risk Reduction Program in Lancaster, Pennsylvania until transferring to Washington, DC in 1996.

As poultry program coordinator, she is responsible for outreach and liaison activities with other federal and state agencies, universities, and the poultry industry. She helps focus research efforts and epidemiologic studies on priority public health pathogens in poultry. One of the goals of APFSP is to help identify effective reduction practices from farm to processing which can be implemented in voluntary commodity quality assurance programs.

MD Symposium Receiving Enthusiastic Response

The 5th International Symposium on Marek's Disease, to be held in East Lansing, Michigan on September 7-11, 1996, has a strong program in place and is anticipating a high level of participation. The program will feature 3 keynote addresses, 60 oral presentations, and 25 poster presentations. Workshop sessions will be convened on (1) Diagnostic methods and molecular techniques, (2) industry concerns, including new pathotypes, (3) MHC and genetics in MD protection, and (4) plans to sequence the MDV genome. A special historical emphasis program to celebrate accomplishments 1960-1972 will include a legacy workshop and historical posters, and a videotape will be produced. The early registration deadline is August 1, 1996. For more information, contact Dr. R.L. Witter, Avian Diseases and Oncology Laboratory, 3606 East Mount Hope Road, East Lansing, MI 48823.



DONATIONS TO AAAP FOUNDATION

BENEFACTOR (\$25,000 OR MORE)

Bayer Poultry Unit

Dr. Kenneth Eskelund

Dr. Hiram Lasher

Dr. Reed Rumsey

PATRON (\$5,000 OR MORE)

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

Dr. David P. Anderson
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SPONSOR (\$500 OR MORE)

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DONOR (\$100 OR MORE)

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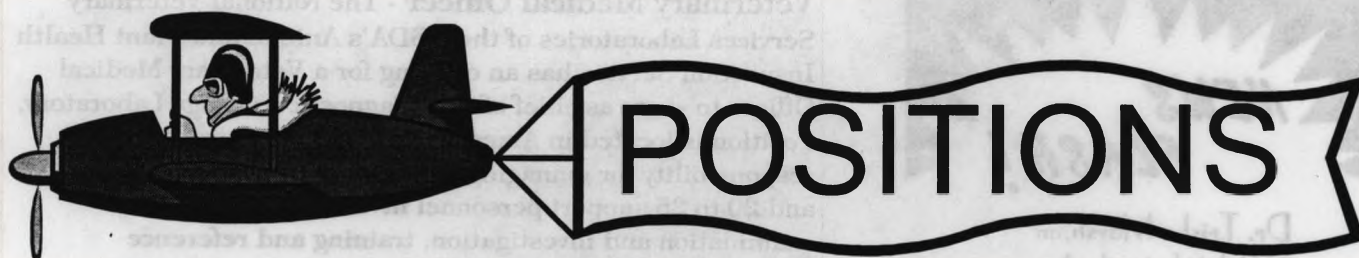
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CONTRIBUTOR (LESS THAN \$100)

Anonymous	Dr. Robin Morgan
Arbor Acres Farms	Dr. Robert Nordgren
Dr. Linda Bachin	Dr. Edwin Odor
Dr. James Bivins	Dr. Robert Olsen
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Dr. Ralph Mitchell	Dr. Robert Williams
Dr. Ram Mohan	Dr. Guillermo Zavala



Poultry Pathologists - The Texas Veterinary Medical Diagnostic Laboratory is seeking applications for a poultry pathologist position at its Gonzales, Texas facility. Qualifications: DVM degree, clinical and laboratory experience with poultry and excellent oral and written communication skills in English. Laboratory experience should be primarily in pathology and microbiology. An advanced degree in these fields, as well as board certification by the American College of Poultry Veterinarians, is desirable. Salary is dependent on qualifications and experience. Position is available after 9/1/96. Responsibilities: the position has a 100% diagnostic service commitment; it is non-tenured and entails poultry necropsies, and lab tests in avian cytology, pathology, virology, bacteriology and serology. The successful applicant will be responsible for the daily operation of the poultry diagnostic laboratory in Gonzales and the supervision of three technicians.

Gonzales is located 70 miles east of San Antonio within an intensive poultry production area. Send curriculum vitae and names of three references to Dr. A.K. Eugster, in care of the Texas A&M University Employment Office, College Station, TX 77843-1475. Please refer to Notice of Vacancy #961200.

The Texas Veterinary Medical Diagnostic Laboratory, a part of the Texas A&M University System, is an equal opportunity/affirmative action employer committed to diversity of its work force.

Poultry Disease Scientist - A tenure-track (Assistant, Associate, or Full Professor) position is available in the Department of Pathobiology, College of Veterinary Medicine, Auburn University. The primary duties are research, teaching and outreach pertaining to poultry diseases. The research component involves the development of an extramurally competitive program and interaction with relevant existing research programs. Teaching responsibilities encompass team-taught graduate courses, supervision of graduate student research, and diseases of poultry and other avian species in the professional curriculum contingent upon qualifications. Outreach activities such as consultations with commercial poultry producers or allied industries are to be developed. Essential qualifications are the PhD degree or equivalent and evidence of recent accomplishments in poultry disease research. The DVM degree or equivalent, board certification in pathology, poultry medicine, or microbiology, and consultative experience with commercial poultry producers or allied industries in a diagnostic or corporate setting are preferred. Salary is negotiable and commensurate with qualifications and experience. The position is available September 1, 1996. Review of applications will begin July 15, 1996 and will continue until the position is filled. Send curriculum vitae, statements of research and teaching interests, and the names, addresses and telephone numbers of three references to: Frederic J. Hoerr, DVM, PhD, Chairman, Search Committee, Veterinary Diagnostic Laboratory, PO Box 2209, Auburn, AL 36831. Phone (334) 844-4987; FAX (334) 826-3592; e-mail hoerrfj@vetmed.auburn.edu

Auburn University is an affirmative action/equal opportunity employer. Minorities and women are encouraged to apply.

Animal Virologist - The Department of Avian Medicine in the College of Veterinary Medicine at the University of Georgia is seeking an animal virologist to fill a tenure-track position. The PhD degree in animal virology or related discipline is required; the DVM degree is desirable. Responsibilities include research and diagnosis in viral diseases of poultry with some teaching at the graduate level.

Interested persons should submit their curriculum vitae and names of 3 persons who may be contacted as references. Deadline for receipt of applications is September 1, 1996.

Direct inquiries and submit applications to Dr. S.H. Kleven, Department of Avian Medicine, College of Veterinary Medicine, University of Georgia, Athens, GA 30602. Phone: (706) 542-5630. e-mail skleven@uga.cc.uga.edu

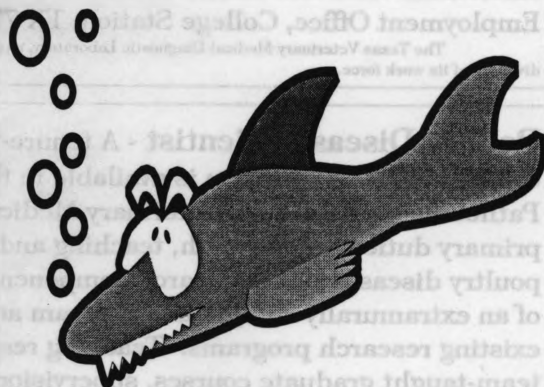
The University of Georgia is an equal opportunity/affirmative action institution.



Dr. Trisha Marsh, an MAM student in the Avian Medicine Department at the University of Georgia has been elected to the AVMA Political Action Committee Policy Board for zone 1 representing Maine to Florida.

Veterinary Medical Officer - The National Veterinary Services Laboratories of the USDA's Animal and Plant Health Inspection Service has an opening for a Veterinary Medical Officer to serve as chief of the Diagnostic Virology Laboratory. Position is located in Ames, IA. Incumbent has complete responsibility for managing a laboratory staff of 15 scientists and 20 to 25 support personnel involved in diagnostic examination and investigation, training and reference assistance, and development of new techniques for the detection, isolation, and identification of animal viruses including agents exotic to the United States. This is a permanent (career) GS-15 position in the Federal Civil Service. Starting salary is approximately \$72,000 per year or higher commensurate with superior experience. For additional information and necessary application forms, contact: USDA, APHIS, Veterinary Services, National Veterinary Services Laboratories, PO Box 844, Ames, IA 50010, Phone (515) 239-8572. Applications must be postmarked by June 21, 1996. The Federal Government is an equal opportunity employer.

Veterinary Pathologist - The Arkansas Livestock and Poultry Commission is seeking applications for a veterinary pathologist/lab supervisor for its Sprindale Laboratory in N.W. Arkansas. The ideal candidate will be ACVP board certified with a desire to work with all species but primarily poultry. The position requires the skills necessary to effectively supervise lab personnel, consult with veterinarians and poultry producers on their laboratory submissions, and conduct occasional field investigations in the local area. Send curriculum vitae to Dr. Paul E. Norris, livestock and Poultry Commission, #1 Natural Resources Dr, Little Rock AR 72205. An equal opportunity employer.



Assistant Director, Division of Scientific Activities - Applications and nominations are sought for the position of Assistant Director of the Scientific Activities Division at AVMA headquarters located in a Chicago suburb. The Assistant Director will implement AVMA policies and objectives relating to the use and availability of drugs and biologics, veterinarians' roles in aquaculture and seafood, and cooperative projects with national organizations. The assistant director provides staff support to assigned councils and committees such as the Council on Biologic and Therapeutic Agents, Drug Advisory Committee, Animal Agriculture Liaison Committee, and Aquaculture and Seafood Advisory Committee, maintains liaison with governmental agencies such as the Food and Drug Administration and the U.S. Department of Agriculture; coordinates activities with national organizations, and supervises the activities of staff. The candidate must be a veterinarian, preferably with clinical practice experience. Excellent oral and written communications skills are essential. Excellent working environment with competitive salary and benefits. Applications should include a letter indicating special qualifications, a curriculum vitae, and 3 references. Applications are preferred by August 15, 1996. Direct correspondence to: Dr. Lyle P. Vogel, Director, Scientific Activities Division, American Veterinary Medical Association, 1931 N. Meacham Road, Suite 100, Schaumburg, IL 60173. The AVMA is an equal opportunity employer.

**AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS
COMMITTEE MEETINGS, HYATT HOTEL, LOUISVILLE, KENTUCKY**

FRIDAY, JULY 19

8:00 AM-7:00 PM

Board of Directors Meeting
Board Room

SATURDAY, JULY 20

8:00 AM-7:00 PM

Board of Directors Meeting
Saratoga Room

2:00 PM-5:00 PM

Biologics Committee
Keeneland Room

5:00 PM-6:00 PM

History of Avian Medicine Committee
Cherokee Room

5:30 PM-7:30 PM

Respiratory Diseases Committee
Keeneland Room

SUNDAY, JULY 21

7:00 AM-8:30 AM

Foodsafety and Diseases of Public Health
Significance Committee
Pimlico A,B Rooms

12:15 PM-1:15 PM

Avian Disease Manual Editorial Board
Pimlico A Room

MONDAY, JULY 22

7:00 AM-8:15 AM

Education Committee
Seneca Room

7:30 AM-8:30 AM

Biotechnology Committee
Derby Room

7:30 AM-8:30 AM

Avian Diseases Editorial Board
Keeneland Room

7:45 AM-8:30 AM

AVMA Liaison Committee
Board Room

12:00 PM-2:00 PM

AAAP Awards Luncheon
Regency C Room

5:30 PM-6:30 PM

Tumor Virus Committee
Pimlico C Room

5:45 PM-6:45 PM

Reference Antisera Committee
Board Room

TUESDAY, JULY 23

7:00 AM-8:00 AM

Animal Welfare Committee
Oaks Room

7:00 AM-8:00 AM

Toxic, Infectious and Miscellaneous
Diseases Committee

7:30 AM-8:15 AM

Gulfstream Room

Epidemiology Committee

7:30 AM-8:30 AM

Pimlico B Room

Kenneth Eskelund Preceptorship Committee

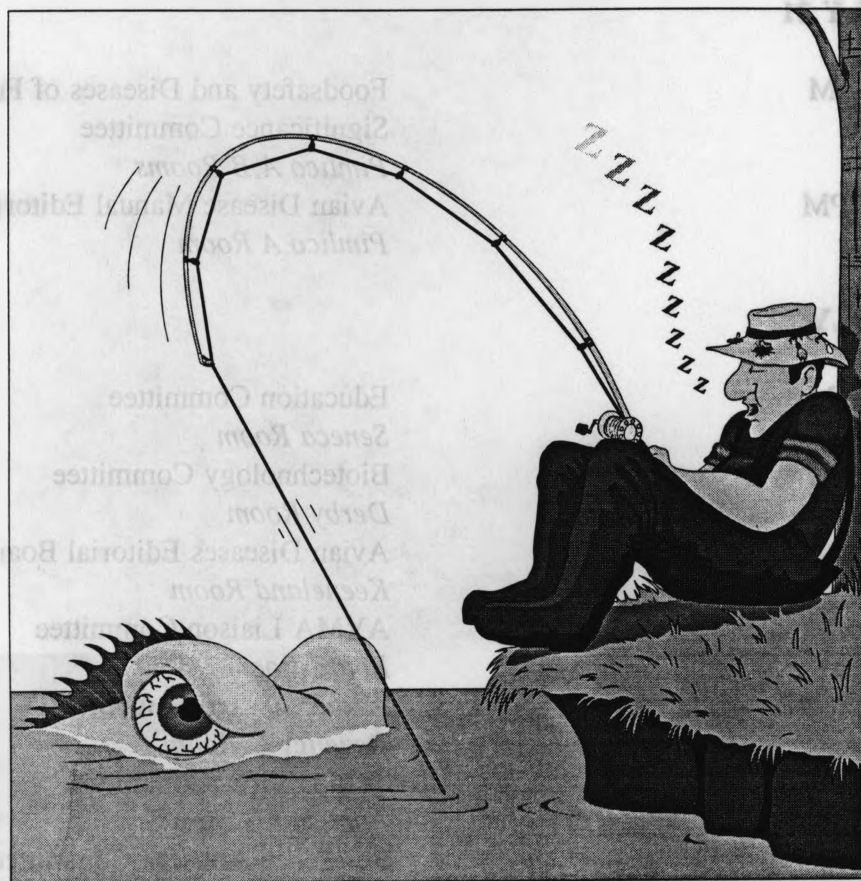
7:30 AM-8:30 AM

Pimlico A Room

Electronic Information Committee

*Derby Room***WEDNESDAY, JULY 24**

7:00 AM-11:00 AM

Board of Directors Meeting
Board Room

PROGRAM FOR THE ENTERIC DISEASE SYMPOSIUM

Sunday, Room 117, Convention Center

8:00-8:05 am	Welcome - <i>T.J. Myers</i>
SESSION 1	Introduction - <i>Mark Dekich</i> , moderator
8:05-8:15 am	Overview of field problems in chickens - <i>Mark Dekich</i>
8:20-8:30 am	Overview of field problems in turkeys - <i>Ken Opengart</i>
8:35-8:50 am	Elanco database - <i>Phil Stayer</i>
8:55-9:15 am	Intestinal physiology - <i>Edwin Moran</i>
9:20-9:40 am	Nutrition - <i>Jerry Sell</i>
9:45-10:00 am	BREAK
SESSION II	Immunity and disease mechanisms - <i>Rob Porter</i> , moderator
10:00-10:25 am	Intestinal immunity - <i>Hyun Lillehoj</i>
10:30-11:10 am	Pathophysiology of enteric infection - <i>Harley Moon</i>
11:15-11:40 am	Pathophysiology of non-infectious enteric diseases - <i>Fred Hoerr</i>
11:45-12:00 pm	Open discussion with all session I and II speakers
12:00-1:30 pm	LUNCH
SESSION III	Disease diagnosis, management and prevention - <i>Hugo Medina</i> , moderator
1:30-1:55 pm	Diagnostic approach to enteric diseases - <i>Chris Hayhow</i>
2:00-2:25 pm	Management and prevention in chickens - <i>Leonard Fussell</i>
2:30-2:55 pm	Management and prevention in turkeys - <i>David Rives</i>
3:00-3:15 pm	BREAK
SESSION IV	Special topics - <i>Linda Keller</i> , moderator
3:15-3:40 pm	Competitive exclusions - <i>Carita Schnietz</i>
3:45-4:10 pm	Spiking mortality/malabsorption in chickens - <i>Stuart McNulty</i>
4:15-4:40 pm	Spiking mortality/malabsorption in turkeys - <i>James Guy</i>
4:45-5:00 pm	Open discussion with all session III and IV speakers
5:00-5:05 pm	Closing comments - <i>Y.M. Saif</i>

AAAP/AVMA SCIENTIFIC PROGRAM

Session A will be held in room 105/106 in the Convention Center

Session B will be held in room 117 in the Convention Center

MONDAY	SESSION A Chickens	SESSION B Turkeys
8:30-8:45 am	<i>Aly M. Fadly</i> Isolation and some characteristics of an avian leukosis virus associated with myelocytomatosis in broiler breeders in the United States	<i>Tsang Long Lin, C.C. Wu, R.E. Porter, H.L. Thacker, C.L. Kanite, A. Bryan</i> Turkey poult enteritis caused by turkey coronavirus
8:45-9:00 am	<i>Richard Witter, D Li, H.J. Kung</i> A natural mutant of Marek's disease virus containing an inserted gene from reticuloendotheliosis virus	<i>AnaPatricia Garcia, T.P. Brown, P. Villegas</i> Turkey enteric coronaviruses: ultrastructural changes and indirect immunofluorescence in HRT-18 cells
9:00-9:15 am	<i>Lucy F. Lee, R.L. Witter</i> Functional analysis of Marek's disease virus genes	<i>Richard J. Julian</i> Epicardial and hepatic fibrosis in heavy turkeys at processing
9:15-9:30 am	<i>John K. Rosenberger, S.S. Cloud, N. Olmeda-Miro, C.R. Pope</i> Characterization and control of recent isolates of very very virulent Marek's disease virus	<i>Julie D. Helm, K. S. Pecelunas, D.P. Wages</i> Comparison of breast scoring in three commercial turkey breeds
9:30-9:45 am	<i>Spangle Klopp, J.K. Rosenberger</i> Field performance of four different Marek's disease vaccines in heavy broilers in North Carolina and Delmarva	<i>Deborah A. Carr, D. Shaw, D.A. Halvorson, B. Rings, D. Roepke</i> Further studies on cellulitis in turkeys
9:45-10:00 am	<i>Trisha Marsh</i> Reed Rumsey Award Winner	<i>Radivoje Spasojevic, J. Newman, D. Shaw</i> Adenovirus group I infection in turkeys co-infected with <i>B. Avium</i>
10:00-10:45 am	BREAK	BREAK

10:45-11:00 am	<i>Holly S. Sellers, P. Villegas, B. Seal, M. Jackwood</i> Sequence comparison and monoclonal antibody characterization of IBDV field isolates	<i>H. John Barnes, J. S. Guy</i> An acute transmissible enteritis of young turkeys causing high (spiking) mortality and stunting
11:00-11:15 am	<i>Kim In-Jeong, J.M. Sharma</i> Effects of infectious bursal disease virus on immune competence	<i>Tom Brown, D. Howell, A.P. Garcia</i> Adult cattle as inapparent carriers of spiking mortality of turkeys
11:15-11:30 am	<i>Jody K. Dybing, D.J. Jackwood</i> Antigenic and immunogenic properties of baculovirus-expressed infectious bursal disease viral proteins	<i>Tom Brown, D. Howell, A.P. Garcia, P. Villegas</i> Histologic lesions of spiking mortality of turkeys; comparison of lesions induced by SMT organ suspension and cell culture SMT associated coronavirus
11:30-11:45 am	<i>John K. Skeeles, L.A. Newberry, M.K. Wilson, G.R. Whitfill, E. Haddad</i> The involvement of variant and classic strains of infectious bursal disease virus in the induction of proventriculitis in chickens	<i>Dennis P. Wages, K.S. Pecelunas, J. Helm</i> Response of spiking mortality in turkeys to sarafloxacin and immunomodulators
11:45-12:00 pm	<i>Ching Ching Wu, T.L. Lin</i> Differential gene expression of bursa infected with infectious bursal disease virus	<i>Richard M. Fulton, W.M. Reed</i> Pathologic characterization of a Michigan <i>Escherichia coli</i> isolate in turkeys
12:00-2:00 pm	AAAP AWARDS LUNCHEON	AAAP AWARDS LUNCHEON
2:00-2:15 pm	<i>Phyllis Tyrrell, V. Leathers</i> Comparison of a chicken anemia virus antibody ELISA to the VN and IFA tests	<i>H.L. Shivaprasad, M. McFarland, M. Anderson</i> Two unusual cases of chlamydiosis (ornithosis) in turkeys
2:15-2:30 pm	<i>Mark A. Goodwin, D.I. Bounous, E.C. Player</i> Transmissible viral proventriculitis in broiler chicks	<i>Gorica Rajcic-Spasojevic, D. Boesch, R. Spasojevic</i> Effect of insufficient egg turning on malformations in turkey embryos and poults

2:30-2:45 pm	<i>Carol Cardona</i> Reed Rumsey Award Winner	<i>Alex J. Bermudez, D.R. Ledoux, G.E. Rottinghaus</i> The individual and combined effects of <i>Fusarium</i> mycotoxins, moniliform (M) and fumonisin B1 (FB1) in turkeys
2:45-3:00 pm	<i>Carey P. Laster, F.J. Hoerr, S. Bilgill, S. Kincaid</i> Management factors that influence tendonopathy in broiler chickens	<i>Klaus-Peter Behr, G. Baron, U.H. Hinz, M. Rull</i> Detection of mycoplasma-ELISA-titers in egg yolk after experimental infection of turkey hens with MG
3:00-3:15 pm	<i>Mark A. Goodwin, J. Brown, J. A. Smith</i> Respiratory coccidiosis (<i>cryptosporidium bailey</i>) among North Georgia broilers in one company	<i>Yugang Luo, J.R. Glisson, M. Jackwood</i> Cloning and expression of a <i>P. Multocida</i> outer membrane (OMP) with a N-terminus identical to <i>P. Multocida</i> protein H and an in vivo expressed 17gKd OMP
3:15-3:30 pm	<i>Roy D. Montgomery, W.R. Maslin, C.R. Boyle</i> Effects of modified live infectious bronchitis virus and newcastle disease virus vaccines on the head-associated lymphoid tissue of the chicken	<i>Awad Abhal-Hafiz Ibrahim, I. Cheng, J.R. Glisson</i> Serotyping of <i>Pasteurella multocida</i> by fluorescent antibody technique
3:30-4:00 pm	BREAK	BREAK
4:00-4:15 pm	<i>Donald L. Reynolds, A. Maraga</i> Studies of newcastle disease: the role of cell mediation and humoral immunity	<i>Cheryl R. Gustafson, A.A. Bickford, B.R. Charlton, G.L. Cooper</i> A case report: <i>Pasteurella multocida</i> infection involving cranial air spaces in chickens
4:15-4:30 pm	<i>Henry D. Stone</i> Newcastle disease oil emulsion vaccine prepared with animal vegetable and synthetic oils	<i>Craig Riddell</i> Torticollis in broiler breeder cockerels

4:30-4:45 pm	<i>Daniel J. King, B.S. Seal</i> Newcastle disease virus isolates from avian influenza surveillance samples: biological and molecular comparisons with other U.S. lentogens	<i>Frederic J. Hoerr</i> Deep pectoral myopathy in broiler breeders
4:45-5:00 pm	<i>Roberta A. Morales, P. Cowen</i> Evaluation of HACCP-based quality assurance programs using risk assessment methods	<i>Gloria E. Avellaneda, P. Villegas</i> Swollen head syndrome in broiler breeders: serological evidence in Columbia
TUESDAY	SESSION A	SESSION B
9:00-9:15 am	<i>Martine Boulianne, G. Hameon, S. Messier</i> Cellulitis in broiler chicken in Quebec: Localization and description of lesions as seen at the Abattoir	<i>Teresa Y. Morishita, P.P. Aye, B. Harr, R. Stonerock, C. Cobb, J.D. Latshaw</i> Effect of probiotics on <i>E. Coli</i> challenge
9:15-9:30 am	<i>Robert A. Norton, S.F. Bilgill</i> <i>E. coli</i> and its association with avian cellulitis	<i>Richard Julian, J.P. Vaillancourt, B.W. Bridle, A. Kaushik</i> Histopathologic diagnosis of acute and chronic hepatitis-liver hemorrhage syndrome in laying hens
9:30-9:45 am	<i>Susantha M. Comis, B. Goodhope, L. Kumor, N. Caddy, C. Riddell, A. Potter, B. Allan</i> Characteristics of <i>E. coli</i> isolated from multiple tissues in broilers condemned for cellulitis	<i>Sayed Mehdi Mirsalimi, M. Moafi, O. Rahimzaden</i> The effect of sodium bicarbonate on prevention and treatment of gizzard erosion in chickens
9:45-10:00 am	<i>Serge Messier, G. Hameon, M. Boulianne</i> Cellulitis in broiler chicken in Quebec: Isolation of <i>Escherichia coli</i> and genetic diversity of the isolates	<i>Mac Terzich</i> The effect of sodium bisulfate on litter bacteria and ammonia production

10:00-10:15 am	<i>Detlef K. Onderka, J.A. Hanson, K.R. McMillan, B. Allan</i> <i>E. coli</i> associated cellulitis in broilers associated with systemic infection, microscopic visceral lesions and skin trimming	<i>Darrell W. Trampel, J.M. Kinyon, N.S. Jensen</i> Pathogenicity of chicken intestinal spirochetes in one day old specific-pathogen free chicks
10:30-12:00 pm	AAAP BUSINESS MEETING	AAAP BUSINESS MEETING
12:00-1:00 pm	LUNCH	LUNCH
1:00-1:15 pm	<i>Syed A. Naqi, G. Thompson, K. Gay</i> Phagocytic activity and intracellular bacterial killing by respiratory macrophages of chickens infected with IBV	<i>A.S. Dhillon</i> Pathogenicity of <i>Salmonella enteritidis</i> phage type 4 isolates and other common poultry phage types in SPF chicks
1:15-1:30 pm	<i>Jean Sander, M.W. Jackwood</i> Protection against a recent Arkansas type 8 infectious bronchitis virus (IBV) isolate from GA broilers vaccinated with the same serotype	<i>Linda H. Keller, D.M. Schifferli, R.J. Eckroade</i> Comparison of the capacity of <i>S. enteritidis</i> and <i>S. typhimurium</i> to colonize the oviduct and forming eggs of infected hens
1:30-1:45 pm	<i>Bruce R. Charlton, C.I. Hall</i> Evaluation of broiler IBV vaccination problems	<i>H.L. Shivaprasad, A. Ardans, B. Daft, D. Read</i> Pathology of experimental infection of laying hens with <i>S. enteritidis</i> , phage type 4 isolated from Southern California
1:45-2:00 pm	<i>Bret Rings, D. Halvorson, D. Shaw</i> The effects of a Minnesota isolate of infectious bronchitis virus in laying hens	<i>Richard K. Gast, R.E. Porter, Jr., P.S. Holt</i> Sensitivity parameters that affect the usefulness of egg yolk antibody testing for detecting <i>Salmonella enteritidis</i> infections in laying hens
2:00-2:15 pm	<i>Alberto Back, R. Gireesch, K.V. Nagaraja</i> Use of microspheres in the delivery of vaccines for poultry	<i>Hailu Kinde, H. Shivaprasad, A. Ardans, B. Daft, D. Read</i> Bacteriologic findings of experimentally infected laying chickens with <i>S. enteritidis</i> , phage type 4 isolated from Southern California

2:15-2:30 pm	<i>James F. Davis, A.E. Castro, P.R. Woolcock, N. Karabatsos, J.C. DeLaTorre</i> Spiking mortality of chickens: Research update	<i>Gireesh Rajashekaya, A. Back, K.V. Nagaraja</i> Cloning and expression of <i>Salmonella enteritidis</i> fimbrial gene for the development of a recombinant vaccine for poultry
2:30-3:15 pm	BREAK	BREAK
3:15-3:30 pm	<i>Marcus A. Head, S.H. Kleven</i> A rapid method for the differentiation of strains of <i>Mycoplasma gallisepticum</i> and other avian mycoplasmas	<i>Carol J. Cardona, W. Reed, R. Silva, R.L. Witter</i> <i>In vivo</i> characterization of fowl pox virus recombinant expressing the nexon of hemorrhagic enteritis virus of turkeys
3:30-3:45 pm	<i>Lloyd H. Lauerman, V.L. van Santen</i> Multiplex PCR for <i>Mycoplasma gallinarum</i> and <i>Mycoplasma gallinaceum</i> identification	<i>Olufemi O. Fatunmbi, W. Reed</i> Conservation and variation in avipoxvirus genome structure
3:45-4:00 pm	<i>Trisha F. Marsh, K.S. Turner</i> To determine the virulence of ratite <i>Mycoplasma</i> isolates in broiler chickens	<i>A.S. Dhillon</i> Cryptosporidiosis in young ostrich chicks
4:00-4:15 pm	<i>Isabelle Kempf, M. Guittet, F. Gesbert</i> Experimental infection of chickens with a <i>Mycoplasma gallisepticum</i> variant strain, comparison of diagnosis methods	<i>Samia A. Shawky</i> Membrane glycoproteins specific for duck herpesvirus
4:15-4:30 pm	<i>Isabelle Kempf, V. Den Hoven Rens, M. Guittet, F. Gesbert</i> Efficacy of difloxacin and enrofloxacin for the control of experimental <i>Mycoplasma gallisepticum</i> infection	<i>Guus Koch, K.A. Schat, L. Hartog</i> MHC-restricted cell-mediated immune response directed against newcastle disease virus
4:30-4:45 pm	<i>Sharon Levisohn, I. Gerchman</i> Epidemiology of Tylosin-resistant <i>Mycoplasma gallisepticum</i> strains in Israel	<i>Ching-Ho Wang, C.T. Tsai</i> Genotype determination for variant strains of avian infectious bronchitis virus in Taiwan (and S. Gene sequencing)

4:45-5:00 pm	<i>Susan B. Lockaby, F.J. Hoerr, S.B. Price</i> Characterization of a cystadhesin in six <i>Mycoplasma synoviae</i> isolates	<i>Karla S. Pecelunas, J.D. Helm, D. Wages</i> Aspergillus flavis infection in breeder pullets
WEDNESDAY	SESSION A	SESSION B
8:30-8:45 am	<i>Jagdev M. Sharma</i> Effect of cytokines on the immune system following <i>in ovo</i> administration	<i>Rachel M. Ouckama</i> Injection of vitamin D3 <i>in ovo</i> used as a treatment of broiler progeny from breeder flocks fed a diet profoundly deficient in vitamin D3
8:45-9:00 am	<i>Silke Rautenschlein, K. Karaca, M. Suresh, J.M. Sharma</i> <u>In vivo</u> and <u>in vitro</u> studies on immunomodulating effects of avian cytokines in turkeys	<i>Elmiro R. Nascimento, M. Gracas, M. Danelli, A. Alencar, F. Curvello</i> Diagnosis of <i>Mycoplasma gallisepticum</i> and <i>M. Synoviae</i> infections by organism identification and serologic tests
9:00-9:15 am	<i>Gyorgy Czifra, V. Moving, M. Nilsson, B. Engstrom</i> Monoclonal antibody blocking ELISAs for the detection of specific antibodies against avian viruses and mycoplasmas	<i>Pratik Sangh, J.A. Newman, J.M. Bradbury</i> Diagnosis of <i>Mycoplasma iowae</i> infection by antigen capture PCR
9:15-9:30 am	<i>Sudhir K Reddy, M. Suresh, K. Karaca, J. Sharma, J. McMillen, R. Schwartz</i> Tetanus toxoid-specific antigenic proliferation assay (Ttx-APA): a means to evaluate immunosuppression in chickens	
9:30-9:45 am	<i>Annabel E. Gonzales, J.R. Glisson, M.W. Jackwood</i> Gene replacement in <i>Haemophilus paragallinarum</i> by homologous recombination	<i>Mohamed K. Hassan, Y.M. Saif, D.J. Jackwood</i> Isolation and characterization of small and large plaque virus clones of a variant infectious bursal disease virus

9:45-10:00 am	<i>Scott Fitzgerald, O. Awolaja, W.M. Reed</i> Pathogenesis of avian polyomavirus infection in bursectomized chickens	<i>Robert A. Kunkle, R. Rimler</i> Experimental aspergillosis in turkeys pretreated with dexamethasone
10:00-10:15 am	<i>Dennis Senne, B. Panigrahy, J. Pearson, R.G. Webster</i> Isolation of nonpathogenic avian influenza virus, subtype H7, from wild birds with characteristics unique to highly pathogenic strains	<i>Deryck Read, H. Kinde B. Daft, H. Shivaprasad, R. Walker, A. Bickford, R. Chin, A. Ardans, K. Nagaraja, D. Kerr, H. Little, D. Willoughby</i> Naturally occurring <i>Salmonella enteritidis</i> phage type 4 infection in a commercial layer chicken flock in California: pathology, bacteriology and epidemiology
10:15-10:30 am	BREAK	BREAK
10:30-10:45 am		<i>Hector Cervantes, T. Cummings, P. Davis, D. Karunakaran</i> Commercial studies with semduramicin (Aviax) a new polyether ionophore anticoccidial
10:45-11:00 am	<i>David Swayne, M. Perdue</i> Selection of an avian influenza virus isolate as the optimal inactivated vaccine candidate to protect against highly pathogenic H5 Mexican avian influenza virus challenge	<i>Timothy Cummings, J. Brake</i> Semduramicin safety in broiler breeders
11:00-11:15 am	<i>Thomas Mickle, N. Kinney</i> The results of experiments with a recombinant avian influenza fowl pox vaccine	<i>Tom Brown, D. Howell</i> The effect of sarafloxacin hydrochloride on spiking mortality of turkeys
11:15-11:30 am	<i>Richard Slemons, W. Fischbach, P. French, S. Goclan</i> Using serum acute phase levels to estimate the severity of nonpathogenic and low pathogenicity avian influenza virus infections in chickens	<i>Eduardo Rivera</i> Update on Mexican AI situation

11:30-11:45 pm	<i>Robert Keirs, C. Boyle, J. Hackathorn</i> Tibial dyschondroplasia frequency in male and female broilers
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AAAP/AVMA POSTER PROGRAM

Room 116, Convention Center

1. *J. Lloyd Spencer, J. S. Gavora*: Use of immunofluorescence to resolve questionable ELISA reactions in an avian leukosis eradication problem
2. *Robin W. Morgan, Qing Xie, Andrea M. Miles*: Marek's disease virus oncogenicity: Functional analysis of relevant viral genes
3. *Ping Wu, Lucy Lee, Willie Reed*: Identification and characterization of MDV gene homologous to UC21 of herpes simplex virus type 1
4. *Yoapan Mao, Lucy Lee*: Marek's disease virus gene encoding DNA binding protein identification and characterization of DNA binding motif of Marek's disease herpesvirus
5. *Margo S. Holland, Melinda Wilson, Robert Silva, James Trosko*: Comparison of gap junction intercellular communication in cells infected with Marek's disease virus serotype 1, 2, and 3
6. *Daral Jackwood*: Molecular epidemiology of infectious bursal disease viruses
7. *Frederick S. Kibenge, Biao Qian*: Analysis of infectious bursal disease virus polypeptide processing using in-vitro transcription-translation of cDNA
8. *Frederick Stephen Kibenge, Biao Qian, Vinay Dhama*: Expression and enzymatic activity of infectious bursal disease virus VP1 in baculovirus and in cell-free systems
9. *Samuel D. Charles, Kakambi V. Nagaraja, Valdyanathan Sivanandan*: Efficacy of subunit protein vaccines in turkey poult against *Salmonella enteritidis* infection
10. *Richard B. Rimler*: Isolation of an antigen from *Pasteurella multocida* that induces cross-protection in turkeys
11. *Patricia Cox, Mark Jackwood*: Virulence gene regulation in *Bordetella avium*
12. *David Ley, J. Edward Berkhoff, Judith McLaren*: *Mycoplasma gallisepticum* strain identification by random amplified polymorphic DNA (RAPD) analysis

13. *Philip Stayer, Albert M. Payne, Andrew Ring, Kevin Watkins, Peter Louw, James Trites, Bret Rings, Aido Rossi*: A computer database to monitor health trends in the U.S. broiler industry
14. *Mark Goodwin, W. Douglas Waltman*: Transmission of *Eimeria*, viruses and bacteria to chicks: Darkling beetles as vectors of pathogens
15. *Hyun Lillehoj, Sonia Jakelow, Shuping Zhang*: Transforming growth factor and tumor necrosis factor production during coccidiosis in different genetic lines of chickens
16. *Sharon Wilson, Charles Smith II*: A model to predict resistance development of *Eimeria* to new anticoccidials
17. *Jean Sander, Walstine Steffens, John Munnell*: Transmission electron microscopy demonstrating abnormalities on tracheal cilia of chicks exposed to formaldehyde during hatching
18. *Kakambi Nagaraja, Lois Ann Bichler, Rajashekara Gireesh, Alberto Back*: Adhesion, invasion of hela cells, HD-11 cells and granulosa cells by *Salmonella enteritidis*
19. *Charles Corsiglia, Tommy Dempsey, Sam Christenberry*: Minimum inhibitory concentration susceptibility patterns of *Salmonella* sp to Sarafloxacin and Enrofloxacin
20. *Kemal Karaca, In-Jeng Kim, Sudhir Reddy, Jagdev Sharma*: Nitric oxide inducing factor as a measure of antigen and Mitogen specific T-cell responses in chickens
22. *Craig Mueller, Lisa Nolan, Theresa Sarkela*: Aerobactin production and the virulence of avian *Escherichia coli*
23. *Samantha Pfaff, Lisa Nolan, Malcolm Smith, Shelly Home*: Distribution of a unique complement-resistance sequence among avian *Escherichia coli*
24. *Lisa Nolan, Richard Wooley*: Traits of virulent avian *Escherichia coli*: An update
25. *Linda Koolstra, Laddie Munger, Bruce Hammerberg, H. John Barnes*: Nematode (*Cyathostoma* sp) infection of the respiratory tract of emus
26. *Joseph Mallia, Jean-Pierre Vaillancourt, Scott McEwen*: Validation of cyanosis: A major category of condemnation in Canadian abattoirs
27. *Jean-Pierre Vaillancourt, Rita Nespeca*: Validation of a biosecurity survey
28. *F. William Pierson, Calvert Larsen, W. Burnham Gross*: The application of stress as a method for improving the efficacy of coccidial vaccines

29. **Mark W. Jackwood, Deborah A. Hilt:** Expression of the spike glycoprotein of IBV in vitro
30. **M.Saif-Edin, M. Aly, S. Mousa:** Status of infectious bursal disease in Egypt - Epidemiology of destructive outbreaks
31. **M. Aly, M. Saif-Edin, S. Mousa:** Status of infectious bursal disease in Egypt II - Recent lines for disease prevention
32. **S. Savage, L. Newman:** Effects of feed withdrawal on processability of chickens
33. **Phyllis Tyrell, Valerie Leathers, John Taxter, Stan Kleven:** Determination of flock mycoplasma status utilizing *M. gallisepticum*/*M. synoviae* ELISAS
34. **Jean Sander, R. Williams, R. Novak, M. Goodwin, W. Ragland:** Emergence of chicken anemia virus in a newly established area of commercial broiler production

