



AAAP SPRING NEWSLETTER

February 1996

AAAP Annual Meeting to be held July 20-24 in Louisville, Kentucky

We have selected the Hyatt Regency Hotel for the AAAP headquarters. All committee meetings and the AAAP Awards luncheon will be held here. The Scientific program will be held at the Convention Center which is located nearby.

The housing and registration forms are attached. Please send your housing form in early so that you will be able to get a room at the Hyatt. It is the closest to the Convention Center so rooms will go quickly. There is also an airport transfer order form attached.



The AAAP Board of Directors will meet all day Friday, July 19 and Saturday, July 20 and again on Wednesday morning, July 24. All members are welcome to attend. Please contact the business office if you have agenda items for the meeting.

The preliminary program for the AVMA-Avian Medicine Scientific Program is enclosed. The scientific program begins with the Symposium on Sunday, July 21 and the platform papers on Monday, July 22 and goes through Wednesday noon. All of these sessions will be held in the Convention Center

AAAP Awards Luncheon

The AAAP Awards Luncheon will be held on Monday, July 22, 1996 from 12-2 pm in the Hyatt Regency Hotel. The ticket order form will be sent in April.



Certificate

Continuing education certificates are available for those attending the scientific program. If you wish to obtain these credits, you must see Dr. Eckroade at the meeting.



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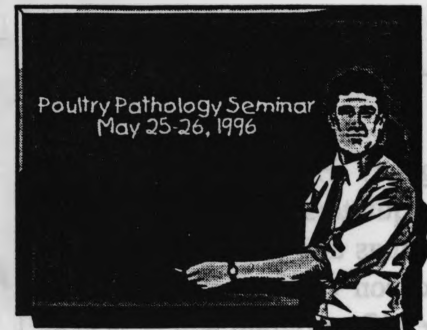


Poultry Pathology Seminar

Continuing Education/Preparation for ACPV

The Ontario Association of Poultry Practitioners and the University of Guelph are proud to announce a two day conference on Poultry Pathology. Emphasis will be placed on gross pathology highlighting a number of avian systems and current pathology reports in turkeys, layers and broilers. A must for candidates writing the 1996 ACPV exam and an excellent opportunity for continuing education for AAAP/ACPV members.

During the weekend of May 25-26, 1996, Dr. Richard Julian, Dr. John Barnes, Dr. Craig Riddell and Dr. Bruce Hunter will unfold their library of pathology slides on all systems (cardiovascular, respiratory, musculoskeletal, etc.) in poultry species.



NEW AVMA EXECUTIVE VICE PRESIDENT

Dr. Bruce Little was named Executive Vice President of the AVMA at the association's annual Veterinary Leadership Conference in Chicago. The announcement was made by Executive Board Chair, Dr. Leonard Seda.

Dr. Little will be responsible for AVMA's offices. He has served with distinction as AVMA's assistant executive vice president. His exemplary service made it unnecessary for the Executive Board to conduct an outside search.

Dr. Little joined the AVMA staff as Administrative Assistant in 1985. The following year he was named Assistant Executive Vice President where he implemented association policy and programs. He has more than 20 years experience as a practicing veterinarian in food and companion animal medicine.

The appointment of Dr. Little came after Dr. Roland Dommert announced his decision to retire from the AVMA after nearly 7 years of service. Dr. Dommert will remain as a consultant to the AVMA for a period of 6 months.

This conference will be held at the University of Guelph situated in Guelph, Ontario only 40 minutes from the Toronto airport. This location offers all the necessities to successfully hold this two day seminar. The cost is \$100 U.S. or \$130 Canadian.

At your earliest convenience, please contact Mrs. Barbara Green or Dr. Scott Gillingham by telephone (519) 763-4695 or by fax (519) 763-5015 for more detailed information. Limited space is available so please call now.

CVM bans extra-label fluoroquinolone use in food animals

Citing the potential for the development of antimicrobial resistance in bacteria pathogenic to human beings, the FDA Center for Veterinary Medicine has added another class of antimicrobials, the fluoroquinolones, to the list of products that cannot be used for extra-label purposes in food-producing animals.

For practitioners, the ban will mean that sarafloxacin hydrochloride, marketed under the trade name Saraflox and first approved in August 1995, can be used only for its labeled purposes in poultry. Saraflox is available as a water-soluble powder and as an injectable solution. The only other fluoroquinolone that is approved for animals is enrofloxacin, marketed under the trade name Baytril. This product is approved for use in companion animals, but has been used by veterinarians for treatment of diseases of neonatal food-producing animals when other antimicrobials were ineffective.

The announcement by the CVM should serve as a warning that veterinarians who persist in using, prescribing, or dispensing Baytril or Sarafloxacin for extra-label treatment of food-producing animals may be subject to regulatory action by FDA enforcement personnel.

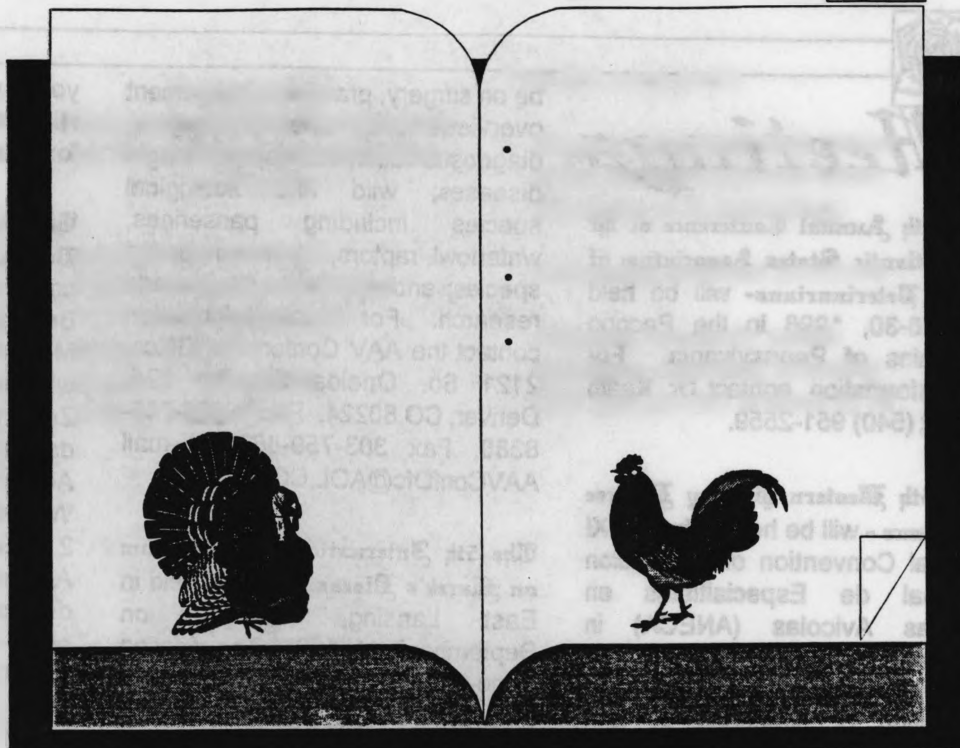


The University of Georgia, Department of Avian Medicine, invites applications for a fellowship to pursue a PhD in Medical Microbiology of Veterinary Pathology. Applicants must possess the DVM degree, or equivalent, at the time of matriculation. Applicants must have a minimum score of 1000 on the graduate record examination and a minimum grade point average of 3.0.

The Department of Avian Medicine is a department within the College of Veterinary Medicine and is housed at the Poultry Diagnostic and Research Center. The Department has an instructional program for veterinary students and graduate students, conducts research on diseases of domestic poultry, and provides disease diagnostic services to the Georgia poultry industry.

The successful candidate will conduct research in an area concerned with diseases of domestic poultry. The student will be supported with an annual stipend of approximately \$19,000 and will be exempt from tuition.

Applicants should call (706) 542-



5644, fax (706) 542-5630, or write Dr. S.H. Kleven, Dept of Avian Med, University of Georgia, Athens, GA 30602, to receive application materials. Dr. Kleven can also be contacted by e-mail: SKleven@uga.cc.uga.edu

Predoctoral microbiology or immunology teaching assistantship available immediately in Purdue University's Veterinary Pathobiology Department. DVM preferred, but not required. To request application, contact Linda Hudson at 317-494-7543 or hudsonl@vet.purdue.edu. Purdue University is an affirmative action/equal opportunity employer/educator.

Dr. Villegas inducted into the Latin American Poultry Hall of Fame

University of Georgia Professor of Avian Medicine, Dr. Pedro Villegas was inducted into the Latin American Poultry Hall of Fame during the Latin American Poultry Congress held in Santiago, Chile. The Hall of Fame was created in 1987 to honor those individuals who have dedicated their lives to the development and improvement of the Latin America poultry industry. Since its creation, the Hall of Fame has inducted 17 members.

Villegas' selection was based on his work with the Latin America poultry industry. Many Latin American veterinarians have pursued graduate studies under his supervision in the U.S. and other countries. Every four years, Dr. Villegas organizes an international seminar in poultry pathology held at the university. He also edits the Spanish poultry magazine, "Avicultura Profesional", through which he shares poultry knowledge with Spanish and Portuguese speaking producers. "I translate technical information to key people in the poultry business", says Villegas.

Villegas has been a faculty member of the avian medicine department since 1977. During his tenure at UGA, he developed a new vaccine to control Newcastle disease, one of the most prominent poultry diseases. He is a native of Colombia, where he obtained his doctorate of veterinary medicine. He also holds degrees from Texas A&M University, and the University of Georgia.



Meetings

The 17th Annual Conference of the Mid-Atlantic States Association of Avian Veterinarians - will be held April 28-30, 1996 in the Pocono Mountains of Pennsylvania. For more information, contact Dr. Keath Marx at (540) 951-2559.

The 45th Western Poultry Disease Conference - will be held with the XXI National Convention of Asociacion Nacional de Especialistas en Ciencias Avicolas (ANCA) in Cancun Mexico on May 1-5, 1996. The emphasis will be the practical application of biotechnology and management to solve present problems and to meet challenges in the future. For further information, please contact Ms. Lina Caparas, Conference and Event Services, University of California, Davis, CA 95616. Phone: (916) 757-3331; Fax (916) 757-7943. E-mail: lincaparas@ucdavis.edu

The 68th Northeastern Conference on Avian Diseases - will be held June 10-12, 1996 in State College, Pennsylvania. Please contact Dr. Patty Dunn or Dr. Barrett Cowan at (814) 863-0837 for more information.

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 AAV 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; raptures; 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 - will be held September 29 - October 1, 1996 in Columbus, OH. ACPV will hold a workshop on September 28th entitled "How Computers can Assist

you in your Job". Please contact Dr. Richard Slemons at (614) 292-1206 for details.

The American Association of Zoo Veterinarians - will hold their annual conference at the Sheraton Beaugarrvilla in Puerto Vallarta, Mexico 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 11th Congress of the World Veterinary Poultry Association - will be held August 18-22, 1997 in Budapest, Hungary. For more information, please contact: Veterinary Medical Research Institute of the Hungarian Academy of Sciences. PO Box 18, Budapest 1581, Hungary. Phone: 36 1 252 2455; Fax: 36 1 252 1069.

Salmonella Research and Educational Aids Available

Single copies of a 12 page extension bulletin and a 25-minute videotape from a major Mid-Atlantic Salmonella control project are available free-of-charge from Dr. Ed Mallinson at the University of Maryland.

The bulletin (#348), "Lower Water Activity in Broiler Litter and the Reduction of Salmonella on Farms and Processed Carcasses", presents the results of 8 years of investigation into the feasibility, and potential marketing/production cost advantages, of on-farm Salmonella risk reduction in broilers. Promising opportunities and suggestions for future Salmonella research and epidemiology are provided.

The videotape, "Partners in Progress: Growing and Testing for Healthy Poultry", provides an overview of the analytical methods used in obtaining much of the data reported in Bulletin 348. The videotape demonstrates both field collection and laboratory processing techniques for Salmonella detection and water activity evaluations of litter surfaces. It also introduces the viewer to membrane filtration and colony lift immunoassay techniques that allow simultaneous overnight detection and quantification of Salmonella from either carcass rinse or environmental specimens.

The control and investigational/research opportunities presented in these print and non-print aids have implications extending beyond broilers. They may be useful to the layer, turkey and livestock industries in general.

To obtain Bulletin 348 and/or the "Partners in Progress" videotape, contact Dr. E.T. Mallinson in writing or by fax at the VA-MD Regional College of Veterinary Medicine, Univ of Maryland Campus, 8075 Greenmead Dr, College Park, Md 20742. FAX 301-935-6079. Allow at least 2-3 weeks for delivery.



SPECIMEN DONATIONS WANTED

The Registry of the Charles Louis Davis Foundation, as of September 1995, has accessioned specimens from over 17,500 individual animals. These materials were acquired as donations from numerous individuals as individual cases, seminar sets and as collections developed during the careers of several of the donors.

The Foundation Registry holdings of microslides and transparencies of avian disease entities needs to be expanded. The Foundation wishes to increase the examples of avian disease of all types in its study sets being used throughout the United States. For further information concerning the donation of specimens, please contact: Dr. Howard A. Hartman, Registrar, Foundation Study Materials at 201-540-8008 or FAX 201-539-5071.

Give Blood.



The AAAP Reference Antisera Committee is in the process of titrating chicken and turkey derived Newcastle antiserum. These sera, along with the SOP for the HI methods used to obtain the titers, will be available to the general membership during the second quarter of 1996. Any laboratory or scientists interested in obtaining this sera should contact Dr. Bill Chase at the address and/or phone numbers shown below. There will be a nominal fee for the sera. All proceeds from the sale of this sera will go back to the AAAP general fund.

Kestrel, Inc

3350 Ashworth Road, Waukeg, IA 50263

Phone 515-987-5060; FAX 515-987-5037

5th INTERNATIONAL SYMPOSIUM ON MAREK'S DISEASE CALL FOR PAPERS AND POSTER PRESENTATIONS

The organizing committee of the 5th International Symposium on Marek's disease is pleased to announce the invitation for submission of titles and abstracts of papers and poster presentations. Information on conference registration and instructions for preparing abstracts and papers will be mailed this month. Titles and abstracts must be submitted on the appropriate form in English by May 1, 1996. Participants will be notified of the disposition of their papers after July 1, 1996. Detailed information can be obtained by contacting Dr. R.L. Witter at USDA-ARS, Avian Disease and Oncology Lab, 3606 East Mount Hope Road, East Lansing, MI 48823; Phone 517-337-6828; FAX 517-337-6776.



Nomination for Houghton Trust Lecturer 1997

Please make nominations for the Houghton Lecturer for 1997. The candidate should be in early to mid career (rather than at the end of their career) and have made significant contributions in poultry disease research and development. Thus it is believed that an age of around 45-50 years should be the upper limit. Please send nominations by April 15, 1996.

For nomination forms and information, please contact Dr. E.F. Kaleta, Inst für Geflügelkrankheiten und Hygiene der Geflügelhaltung, Justus-Liebig-Universität Giessen, Frankfurter Strasse 87, D 35392, Giessen, Germany.



DONATIONS TO AAAP FOUNDATION

BENEFACTOR (\$25,000 OR MORE)

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

Dr. Bruce W. Calnek

Dr. L.C. Grumbles

Dr. Sam Schmittle

Dr. R.A. Bankowski

Dr. H.L. Chute

Dr. Charles F. Hall

Dr. G. H. Snoeyenbos

Dr. H. John Barnes

Dr. Morris Cover

Dr. Stanley H. Kleven

Dr. Stanley Vezey

Dr. Charles W. Beard

Dr. Robert J. Eckroade

Dr. Glenn Kolb

Dr. R.W. Winterfield

Dr. Arthur A. Bickford

Dr. Monte Frazier

Dr. Birch L. McMurray

Dr. Richard L. Witter

Dr. Everett Bryant

Dr. S.E. Glass

Dr. Benjamin S. Pomeroy

Dr. Harry W. Yoder

Dr. Max Brugh

Dr. Mark Goodwin

Dr. A.S. Rosenwald

Dr. Donald V. Zander

Dr. B.R. Burmester

SPONSOR (\$500 OR MORE)

Dr. Charles Darby

Dr. S.B. Hitchner

Dr. Bryan Mayeda

Dr. Richard Yamamoto

Dr. Nicholas Dorko

Dr. Richard Julian

Dr. Edward E. Stuart

DONOR (\$100 OR MORE)

Dr. G.W. Albright

Dr. Julius Fabricant

Dr. Thomas Migaki

Dr. Simon Shane

Dr. Calvin Anthony

Dr. Jack Gelb

Dr. Gordon Miller

Dr. David Shapiro

Dr. James Arends

Dr. Yan Ghazikhanian

Dr. L.G. Morehouse

Dr. Jagdev Sharma

Dr. Lawrence Arp

Dr. W.B. Gross

Dr. T.J. Myers

Dr. Louis Shor

Dr. Roscoe Balch

Dr. M.A. Hammarlund

Dr. Linnea Newman

Dr. A Silim

Dr. Joseph Beasley

Dr. Kenneth Heddleston

Dr. Norman Olson

Dr. Don Simmons

Becton Dickinson

Dr. Fred Hoerr

Dr. James Pearson

Dr. Wilfred Springer

Dr. Dick Boyd

Dr. Tom Holder

Dr. Jean Petter

Dr. David Swayne

Dr. Heinrich Brandt

Dr. Keith Honegger

Dr. Peter Poss

Tri Bio Laboratories

Dr. Kim Brinton

Dr. Min Hsiung Hwang

Dr. Dennis Rahn

Dr. Louis van der Heide

Dr. William Chase

Dr. Rebecca Hyde

Dr. Merrill Ranck

Dr. Pedro Villegas

Dr. Richard Chin

Dr. Daniel King

Dr. Keith Rhoades

Dr. Donald W. Waldrip

Dr. C.H. Cunningham

Dr. David Kradel

Dr. Craig Riddell

Dr. Lloyd Weber

Dr. Gregg Cutler

Dr. John Lancaster

Dr. Donald Roepke

Dr. Yoram Weisman

Dr. John Donahoe

Dr. Lloyd Lauerman

Dr. I.D. Russell

Dr. Charles Whiteman

Dr. H.L. Easterbrooks

Dr. Eric Lovell

Dr. Y.M. Saif

Mr. Dennis Winkler

Dr. Robert K. Edson

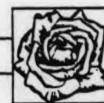
Dr. Edward Mallinson

Dr. Ton Schat

Dr. Doug Erbeck

Dr. Michael McCabe

Dr. L. Dwight Schwartz

**CONTRIBUTOR (LESS THAN \$100)****Anonymous****Arbor Acres Farms****Dr. Linda Bachin****Dr. James Bivins****Dr. Tom Blount****Dr. Thomas Bryan****Dr. A.E. Castro****Dr. Hector Cervantes****Dr. Travis Cigainero****Dr. Sandra Cloud****Dr. Max Colwell****Dr. James Davis****Dr. Singh Dhillon****Dr. Jack Douglas****Dr. Gary Edwards****Dr. Mark Fisher****Dr. Tom Frederickson****Dr. Bill Gerencer****Dr. Hashim G'ham****Dr. Joseph Giambrone****Dr. Robert Good****Dr. Eric Gonder****Dr. Dixon Gourley****Dr. Segar Goyal****Dr. D.A. Halvorson****Dr. Lyle Hanson****Dr. Roger Harvey****Dr. Gail Heyer****Dr. Sharon Hietala****Dr. Peter Holt****Dr. Doug Jensen****Dr. Mario Jimenez Escobar****Dr. Lloyd Keck****Dr. Bernardo Koojic-Rousseil****Dr. Kenton Kreager****Dr. Benjamin Lucio****Dr. John McCarty****Dr. Hugo Medina****Dr. Armando Mirande****Dr. Ralph Mitchell****Dr. Ram Mohan****Dr. Robert Nordgren****Dr. Edwin Odor****Dr. Robert Olsen****Dr. Ken Opengart****Dr. Fernando Parra-Echeverry****Dr. James Patterson****Dr. William Patton****Dr. Michael Perdue****Dr. Gene Pharr****Dr. F. William Pierson****Dr. H.G. Purchase****Mr. Paul Rebers****Dr. John Renault****Dr. Reynaldo Resurreccion****Dr. Don Reynolds****Dr. John Richard****Dr. Don Ritter****Dr. Sandra Rogers****Dr. Charles Roney****Dr. Gregorio Rosales****Dr. Michael Ruff****Dr. James Rushing****Dr. Tirath Sandhu****Dr. Thomas Sawa****Dr. Kirk Skeeles****Dr. John Smith****Dr. Charles Smyser****Dr. Walter Staples****Dr. Bruce Stewart-Brown****Dr. Stephen Thayer****Dr. Antonio Colinas Tovar****Dr. Francene Van Sambeek****Dr. Mary Vickers****Dr. Yvonne Vizzier****Dr. Eva Wallner-Pendleton****Dr. Mary Walser****Dr. Ron Wilburn****Dr. Robert Williams****Dr. Guillermo Zavala**



AVAILABLE POSITIONS



Applications are invited for an available tenure-track faculty position as an assistant professor with joint appointments in the Departments of Poultry Science and Veterinary Pathobiology at Texas A&M University. The appointment will have a 67% research/33% teaching commitment. Applicants should have a PhD and a strong record of research accomplishments working with poultry. Candidates also possessing the DVM degree are encouraged. Postdoctoral experience is preferred. The successful applicant will be expected to develop a highly competitive research program and contribute to teaching commitments of the Department of Poultry Science at both undergraduate and graduate levels. Candidates will be expected to develop an independent extramurally funded research program that focuses on an area of basic avian biology, with potential areas of emphasis to include reproduction, embryology, molecular genetics or immunology. However, excellent candidates in all areas of poultry biology or pathobiology will be given serious consideration. A state of the art poultry science research and teaching center and excellently equipped laboratory space are available.

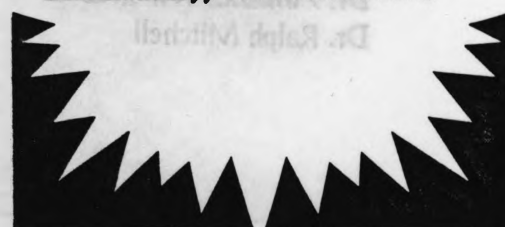
Applicants should submit a curriculum vitae, the names, addresses and phone numbers of four references and a brief statement of research interests and teaching experience to Dr. Alan Sams, Chair, Faculty Search Committee, Department of Poultry Science, Texas A&M University, College Station, TX 77843. Review of applications will begin April 1, 1996 and continue until a successful candidate is identified. Texas A&M University is an equal opportunity / affirmative action employer.

Georgia Poultry Laboratory has a position available for a veterinary poultry diagnostician. A DVM degree or equivalent is required with poultry experience desirable. However, we will consider recent graduates without poultry experience. Responsibilities include clinical diagnoses of poultry diseases and recommendations for treatment and prevention. Some field work will be required along with a willingness to work closely with the poultry industry. All applicants must be United States citizens. A Georgia veterinary license is desirable. All license examination fees will be paid by Georgia Poultry Laboratory. Salary commensurate with qualifications and experience.

Please send resume and references to Dr. Thomas G. Dickson, PO Box 20, Oakwood, GA 30566. Phone (770) 535-5996; FAX (770) 535-5941.



According to the 1994 SCI Journal Citation Report, Avian Diseases ranked 21st for the veterinary sciences category. This is just below the American Journal of Veterinary Research which ranked 18th and above Avian Pathology which ranked 28th.





AVAILABLE POSITIONS Continued

Molecular/Cellular Immunologists - The Virginia-Maryland Regional College of Veterinary Medicine, Maryland Campus, and the Center for Agricultural Biotechnology, within the University of Maryland Biotechnology Institute, jointly invite applications for a tenure-track faculty appointment in immunology at the Assistant Professor level. Candidates must have a PhD with post doctoral experience in cellular and molecular immunology. Candidates should be able to demonstrate leadership in development of an active and contemporary research program in molecular and/or cellular immunology with an emphasis on poultry. The successful candidate must be able to communicate and collaborate effectively with academic colleagues, government personnel, and industry representatives. Additional duties include direction of graduate student research and some instruction of undergraduate and graduate students. Applicants with interests in ontogeny of the immune system; molecular and cellular mechanisms of immune modulation; and, the impact of immune response on infectious disease and disease control measures are encouraged to apply. Salary is negotiable and will be commensurate with qualifications and experience.

Qualified applicants should submit a letter of application, curriculum vitae, statement of career goals and research interests, and names, addresses and telephone numbers of three references to Dr. Vikram Vakharia, Chair, search committee, Virginia-Maryland Regional College of Veterinary Medicine, University of Maryland, 8075 Greenmead Drive, College Park, MD 20742-3711.

The Virginia-Maryland Regional College of Veterinary Medicine, Maryland Campus seeks candidates for a 12 month, tenure-track faculty appointment in poultry veterinary medicine extension at the Assistant or Associate Professor level. Candidates must have a DVM or equivalent degree. Advanced degrees, and/or board certification (especially with the American College of Poultry Veterinarians) or equivalent training in avian medicine, and extensive experience working with the poultry industry are highly desirable. Interests in population medicine and epidemiology also are desirable. The chosen individual will be expected to participate in a tri-state (MD, VA, DE), multidisciplinary team that: 1) provides diagnostic services and field investigation of poultry disease outbreaks, 2) provides consultation on preventive poultry health practices, 3) develops and presents informational materials and educational programs, to the poultry industry, including hobby and specialty flock owners, 4) participates in local, regional, and national poultry health and production meetings, and 5) trains interns, residents, and other veterinary students in poultry population medicine and management. The position will be located in Salisbury, MD (Delmarva Eastern Shore). The successful candidate must demonstrate an ability and desire to collaborate with other academic faculty and professionals in an inter-agency program. For example, the position will require rotation with the veterinary staff at the University of Delaware's diagnostic facility in Georgetown, DE. Salary is negotiable and will be commensurate with qualifications and experience.

Qualified applicants should submit a letter of application, curriculum vitae, statement of career goals and research interests, and names, addresses and telephone numbers of three references to Dr. Douglas Carmel, Chair, search committee, Virginia-Maryland Regional College of Veterinary Medicine, University of Maryland, 8075 Greenmead Drive, College Park, MD 20742-3711. Phone (301) 935-6083 Ext 118.

Applications will be received until May 17, 1996, or until an acceptable candidate has been identified. The University of Maryland is an affirmative action/equal opportunity employer.



AVAILABLE POSITIONS Continued

The University of Maryland at College Park, in partnership with Virginia Polytechnic Institute and State University, invites applications and nominations for the dual position of Chair, Dept. of Veterinary Medicine and Associate Dean, Virginia-Maryland Regional College of Veterinary Medicine. This is the only truly joint college of veterinary medicine in the nation. Located in the DC-mid-Atlantic region, the department is afforded exceptional opportunities to collaborate with the many universities, government agencies and industries in the area.

As Chair of the Department of Veterinary Medicine, the incumbent reports to the Dean, College of Agriculture and Natural Resources for veterinary cooperative extension, animal health research and graduate studies in the Maryland Agricultural Experiment Station, and limited undergraduate teaching in life sciences.

As Associate Dean, the appointee reports to the Dean, Virginia-Maryland Regional College of Veterinary Medicine (VMRCVM) for Maryland's portion of the joint two-state program which educates 120 Maryland students and 200 Virginia students enrolled for the DVM degree in the regional college. The individual, as a member of the VMRCVM Executive Board, works closely with other department heads and associate deans in both states.

The Department occupies a new (1991) state-of-the-art facility and comprises 16 FTE faculty, 11 FTE support staff and a \$2.0M budget including \$0.5M research grants and contracts. The nationally recognized Center for Government and Corporate Veterinary Medicine is located within the Department. A tri-state poultry health program is under development with the Universities of Maryland, Virginia and Delaware.

Responsibilities include creating and sustaining an environment of academic excellence; encouraging the continual development of strong research programs; assuring that instructional programs are of the highest quality, from undergraduate through professional and graduate education; and developing outreach programs to the department's constituency groups.

The successful candidate will be an established scholar of national stature. Excellence in teaching, research and outreach are expected. The appointee must possess outstanding administrative and leadership abilities and have a demonstrated commitment to the land-grant philosophy. He/she will have an understanding and vision of the role of the future of veterinary medicine and must develop strong relationships with constituent groups, including state and federal agencies, commodity groups, corporate organizations, practitioners and alumni.

Qualifications must include the DVM (or equivalent) degree, together with an advanced degree, preferably a PhD in a discipline appropriate to the department, and eligibility for the rank of professor with tenure. The position is available July 1, 1996. Review of applications will begin on February 15, 1996 and will continue until the position has been filled. Women and minorities are encouraged to apply.

Salary and benefits are highly competitive, commensurate with qualifications and experience. Qualified applicants are invited to submit a letter of intent and a complete curriculum vitae, with documentation of teaching, research, public service and leadership experience. Interested candidates should send the name, address, and phone number of five individuals who can comment on your qualifications to:

Dr. J. Scott Angle, Associate Dean, College of Agriculture and Natural Resources, Room 1201, Symons Hall, University of Maryland, College Park, MD 20742. Phone 301-405-2462. Fax 301-314-9089. E-mail: ja35@umail.umd.edu. The University of Maryland is an Equal Opportunity Employer

STAFF VETERINARIAN

Integrated Broiler Company is seeking applicants to fill the position of staff veterinarian. Applicants should have a minimum of DVM plus MAM or DVM plus 3 years broiler experience. Send your resume to Bob Rosa, Sanderson Farms, Inc., PO Box 988, Laurel, MS 39441-0988

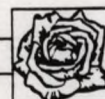


AAAP/AVMA PRELIMINARY SCIENTIFIC PROGRAM

MONDAY	SESSION A	SESSION B
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>Klopp, Spangler, 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>Radivoje Spasojevic, J. Newman, D. Shaw</i> Adenovirus group I infection in turkeys co-infected with B. Avium
10:00-10:45 am	BREAK	BREAK



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



2:30-2:45 pm	<i>Joan S. Jeffrey, L.A. Martinez, H.W. Sampson, R. Davis, H. Bahkar, T.W. Odom</i> Electron microscopic evaluation of embryonic pulmonary artery and lung development in a fast and slow growing chicken line	<i>Alex J. Bermudez, D.R. Ledoux, G.E. Rottinghaus</i> The individual and combined effects of Fusarium 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 (cryptosporidium bailey) 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. Mason, 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>Seyed Mehdi Mirsalimi, M. Moafi, O. Rahimzaden</i> The effect of sodium bicarbonate on prevention and treatment of gizzard erosion on 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> Pathological and bacteriological characterization of cellulitis in broilers and its correlation with systemic disease	<i>Darrell W. Trampel, J.M. Kinyon, N.S. Jensen</i> Pathogenicity of chicken intestinal spirochetes in one day old specific-pathogen free chicks
10:15-10:30 am	BREAK	BREAK
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> In vivo 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

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	<i>Jean Sander, R. Williams, R. Novak, M. Goodwin, W. Ragland</i> Emergence of chicken anemia virus in a newly established area of commercial broiler production
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>Henry Stone</i> Newcastle disease oil emulsion vaccine prepared with animal, vegetable and synthetic oils	<i>Robert A. Kunkle, R. Rimler</i> Experimental aspergillosis in turkeys pretreated with dexamethasone
10:00-10:15 am	<i>Scott Fitzgerald, O. Awolaja, W. Reed</i> Pathogenesis of avian polyomavirus infection in bursectomized chickens	<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>Dennis Senne, B. Panigrahy, J. Pearson, R. Webster</i> Isolation of nonpathogenic avian influenza virus, subtype H7, from wild birds with characteristics unique to highly pathogenic strains	<i>Hector Cervantes, T. Cummings, P. Davis, D. Karunakaran</i> Commercial studies with semduramicin (Aviax) a new polyether ionophore anticoccidial



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> strains in Israel	<i>Gruus 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> <i>Aspergillus flavus</i> 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 <u>in ovo</u> administration	<i>Rachel M. Ouckama</i> Injection of vitamin D3 <u>in ovo</u> 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. Grasa, 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



21. *Charles Corsiglia, Tommy Dempsey, Sam Christenberry*: Minimum inhibitory concentration susceptibility patterns of *Salmonella* sp to Sarafloxacin and Enrofloxacin
22. *Kemal Karaca, In-Jeng Kim, Sudhir Reddy, Jagdev Sharma*: Nitric oxide inducing factor as a measure of Ontiger and Mitogen specific T-cell responses in chickens
23. *Graig Mueller, Lisa Nolan, Theresa Sarkela*: Aerobactin production and the virulence of avian *Escherichia coli*
24. *Samantha Pfaff, Lisa Nolan, Malcolm Smith, Shelly Home*: Distribution of a unique complement-resistance sequence among avian *Escherichia coli*
25. *Lisa Nolan, Richard Wooley*: Traits of virulent avian *Escherichia coli*: An update
26. *Linda Koolstra, Laddie Munger, Bruce Hammerberg, H. John Barnes*: Nematode (*Cyathostoma* sp) infection of the respiratory tract of emus
27. *Jean-Pierre Vaillancourt, Joseph Mallia, Scott McEwen*: Validation of cyanosis: A major category of condemnation in Canadian abattoirs
28. *Jean-Pierre Vaillancourt, Rita Nespeca*: Validation of a biosecurity survey
29. *F. William Pierson, Calvert Larsen, W. Burnham Gross*: The applicaton of stress and a method for improving the efficacy of coccidial vaccines
30. *Mark W. Jackwood, Deborah A. Hilt*: Expression of the spike glycoprotein of IBV in vitro
31. *M.Saif-Edin, M. Aly, S. Mousa*: Status of infectious bursal disease in Egypt - Nature of last severe outbreaks
32. *M. Aly, M. Saif-Edin, S. Mousa*: Status of infectious bursal disease in Egypt II - Aspects of control
33. *S. Savage, L. Newman*: Effects of feed withdrawal on processability of chickens



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

PRELIMINARY POSTER PROGRAM

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 Xle, 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 polyprotein 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 poults 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. *Denise Bounous, Lynda Kelley, Scott Hafner*: Renal cell carcinomas in chickens
13. *David Ley, J. Edward Berkhoff, Judith McLaren*: *Mycoplasma gallisepticum* strain identification by random
14. *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
15. *Mark Goodwin, W. Douglas Waltman*: Transmission of *Eimeria*, viruses and bacteria to chicks: Darkling beetles as vectors of pathogens
16. *Denise I. Bounous, Lynda Kelley, Scott Hafner*: Cell-mediated immune response in SPF and broiler chickens infected with infectious laryngotracheitis virus
17. *Hyun Lillehoj, Sonia Jakelow, Shuping Zhang*: Transforming growth factor and tumor necrosis factor production during coccidiosis in different genetic lines of chickens
18. *Sharon Wilson, Charles Smith II*: A model to predict resistance development of *Eimeria* to new anticoccidials
19. *Jean Sander, Walstine Steffens, John Munnell*: Transmission electron microscopy demonstrating abnormalities on tracheal cilia of chicks exposed to formaldehyde during hatching
20. *Kakambi Nagaraja, Lois Ann Bichler, Rajashekara Gireesh, Alberto Back*: Adhesion, invasion of hela cells, HD-11 cells and granulosa cells by *Salmonella enteritidis*

**PRELIMINARY PROGRAM FOR THE ENTERIC DISEASE SYMPOSIUM**

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>