❖AAAP WINTER NEWSLETTER❖

January 1995

AAAP Annual Meeting

to be held July 8-12 in Pittsburgh Pennsylvania

We have selected the **Pittsburgh Vista Hotel** for the AAAP headquarters. The housing form is attached. All of our scientific programs and committee meetings will be held there.

The AVMA meeting registration form is attached.

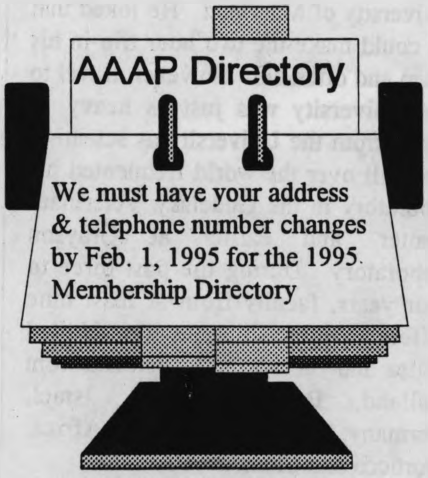
The ***Preliminary Program*** for the AVMA-Avian Medicine Scientific program is enclosed. The scientific program begins with the Symposium on Sunday, July 9 and the platform papers on Monday, July 10 and goes through Wednesday noon. All of these sessions will be held in the Vista Hotel.

Attached to this newsletter you will find a brochure about airline travel to the AVMA meeting in Pittsburgh. We have signed a contract with USAir and United airlines to provide air travel at 5% off lowest fare or 10% off normal coach fare for AAAP members going to Pittsburgh. For every 40 tickets that are purchased, AAAP will receive one free ticket which can be used to support travel to the meeting for speakers, etc. Call the 800 number on the brochure and make your arrangements today.

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

BOARD MEETINGS

The AAAP Board of Directors will meet all day Friday, July 7 and Saturday, July 8 and again on Wednesday morning. All members are welcome to attend.



The AAAP Awards Luncheon will be held on Monday, July 10, 1995. Ticket information will be arriving at a later date.

BLUE RIBBON PERFORMANCE

Inside This Issue

Annual Meeting Information
Preliminary Scientific Program
Housing and Travel Forms
AVMA Meeting Registration Form
Donations to AAAP Foundation
Available Positions
Meeting Announcements

A Sad Note

Dr. David Bruce Snyder, associate professor at the Virginia-Maryland Regional College of Veterinary Medicine at the University of Maryland, died October 1994. Dave Snyder was born in Johnstown, Pennsylvania, and worked in the coal mines of West Virginia for a number of years before embarking on a productive academic career. He received his B.S., M.S. and PhD at the University of Maryland. He became a tenured professor in 1988 and was a leader in the poultry disease research field on a local, national and international level.

Dave's PhD dissertation involved the use of monoclonal antibodies to characterize infectious bronchitis virus and he proceeded to make the production and use of "monoclonals" a routine procedure in his laboratory. Their use in the development of ELISA technology for poultry diagnostics is well known. Most commercial ELISA kits used in the poultry industry cite Snyder et al. publications and use the original algorithm and methods developed by Dave and those who worked with him. He was a pioneer in the characterization of antigenic variants of infectious bursal disease and isolated the GLS strain used in the United States in inactivated vaccines. He recently isolated the RS 593 strain and continued to explore IBD's antigenic changes worldwide until his death.

Dave Snyder was a prolific scientist. He published over 100 articles, reviews and abstracts in a variety of professional journals. His work was of the highest technical and scientific level, and was often published in the most respected journals in our field. However, it was also very practical which resulted in his research being frequently featured in both the popular press and poultry industry magazines. Dr. Snyder was highly regarded in the industry and often asked to be a feature speaker, an expert panelist or guest editor. The list of journals, foundations and institutions for which he was a reviewer is lengthy. For our own organization, Dave served as a member of the Reference Antisera Committee of the AAAP and co-authored the chapter on the use of enzyme immunoassays and monoclonal antibodies for avian diagnostics for the *Isolation and Identification of Avian Pathogens*.

Dave Snyder is co-holder of several patents with several more pending. He was investigator or co-principal investigator in at least six Maryland State Experimental Station research projects and was a collaborator in research efforts with various institutions ranging from the USDA and Eli Lilly to the University of Georgia and Georgia Poultry Laboratory, ELANCO and Intervet. In 1994 he was nominated for the Inventor of the Year Award, Life Sciences, Office of Technology Liason at the University of Maryland.

Dr. Snyder was very involved with the local poultry industry. He was an active member of both the Poultry Health Committee and Emergency Poultry Diseases Committee for the Delmarva Poultry Industry (DPI). He seldom missed the annual Condemnations meeting in Delmarva and made frequent trips from the University of Maryland. He joked that he could make the two hour trip in his sleep and often did. However, travel to the University was just as heavy as travel from the University as scientists from all over the world frequented his laboratory in the Gudelsky Veterinary Center, and earlier at Grayson Laboratory. During the past three to four years, faculty from at least nine different universities in the United States and Canada and scientists from Holland, England, Spain, Israel, Germany, Australia, South Africa, Morocco and China have had the opportunity to observe some of the techniques developed at Gudelsky.

Dave was both a loyal protege and a loyal mentor. Virtually all of his career was at the University of Maryland and he worked respectfully not only with those who helped him get where he was, but also with those whom he helped. In his professional association with the industry, he was loyal and gracious for the support he received while maintaining his academic freedom and openess to work with others. Most important, he was a fiercely loyal friend. His family, home and heart were open to everyone who worked with him.

No one achieves success in our profession without plain hard work. Dave was also willing to do the dirty work. Formality and ivory towers were not his style. With the same energy that one might find Dave Snyder running an ELISA, one could find him cleaning isolators during university holiday vacations. Dave Snyder had an uncanny ability to light up a room. Whether delivering a lecture or roaming the halls of a conference, he made people smile and feel good. A hearty laugh heard down the corridor from a colleague on the phone often meant that Dave Snyder was at the other end of the line. His sense of humor, gregarious nature and willingness to help others made him a special individual.

The circumstances of Dave's tragic death bring many questions to all of us - about our profession, our society and the fast and furious pace of our lives. However, after the pain and shock of his death fades, Dave's endearing qualities are what will remain with all of us. We will miss him.

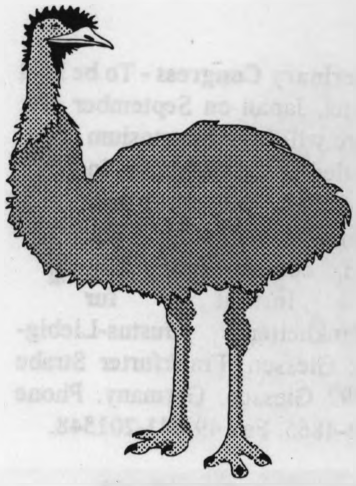
Dr. Elwin Peterson, 85, of Springdale, Arkansas passed away in September. He was professor emeritus of poultry science at the University of Arkansas. He graduated from Utah State University and obtained his doctorate in bacteriology at the University of Wisconsin and a doctorate in veterinary medicine from Cornell University in 1942. He taught in the UA animal sciences department for 20 years and retired in 1976. He was the author of *Poultry Diseases*. He was a member of Sigma Xi, Gamma Sigma Delta, the AVMA, AAAP, the Animal Disease Research Workers in the Southern States, the Poultry Science Association and the conference of Research Workers in Animal Diseases. He was a member of University Baptist Church. Survivors include his wife of 55 years, Vera, one daughter, and twin sons. Memorials may be made to the University Baptist Church Building Fund, 315 W. Maple St, Fayetteville, AR 72701.

Dr. Charles E. Polk, 66, of Russellville, Arkansas died August 10. As a development/technical services veterinarian, he provided technical support to Sanofi for 20 years. He wrote more than 100 articles and case history studies published for Sanofi and in numerous industry publications. Dr. Polk was a member of AVMA and AAAP.

A BOMBER PILOT IN WWII

THIS DELIGHTFUL FIRST PERSON STORY OF WHAT IT WAS LIKE TO FLY THE LEFT SEAT OF A B-24 DURING WWII WAS WRITTEN BY ONE OF OUR MEMBERS. IF YOU ARE INTERESTED IN OBTAINING A COPY PLEASE SEND $12.00 TO DR. WALTER HUGHES, 36681 CUENCA CT., FREMONT, CA 94536.

WALTER F. HUGHES



New slide study set available

Chicken Infectious Anemia

This slide study set can be purchased for $30 from the AAAP business office.

WANTED - Turkey or Duck Serum

I have developed an elementary body agglutination antigen for avian chlamydiosis testing. It is useful for testing a wide variety of birds primarily because it detects only IgM activity. However, I would appreciate receiving a few turkey or duck serum samples, preferably FRESH that have NOT been frozen, from known outbreaks of chlamydiosis, to include both positive and some negative.

Titers with stained antigen are not usually very high but a few in psittacine birds have been up to 1240. Other types of birds for which the antigen is useful have been passerine birds, chickens, pigeons and doves, and rheas and ostriches.

The only other stained antigen used that I am aware of was by Dr. Don Mason in 1959 (J. Immunol. 83:661-666). He obtained low titers in infected turkeys using a capillary tube method.

Please contact Dr. James E. Grimes, Texas Veterinary Medical Diagnostic Laboratory System, Drawer 3040, College Station, TX 77841. Telephone 409-845-3414.

MEETINGS

Dr. Thomas Bryan was presented with the North Central Avian Disease Conference's Meritorious Service Award in October. He began his career in 1972 as an assistant professor of poultry science at the University of Maine after obtaining his DVM and MS degrees from Kansas State University. In 1976, he joined Central Soya Feed Research Company where he provided service to all segments of the poultry industry throughout the Midwest. Two years later he accepted a similar position with DeKalb Agricultrual Research. In 1981, Dr. Bryan assumed his current position of poultry diagnostician for Purdue University's Animal Disease Diagnostic Lab. In this position, he serves as one of the principal poultry diagnosticians for the Indiana poultry industry.

The 44th Western Poultry Disease Conference will be held March 5, 6 & 7, 1995 at the Capitol Plaza Holiday Inn, Sacramento, California. For more information, please contact Dr. Arnold Rosenwald, Vet Extension, University of California, Davis, CA 95616. Phone 916-753-2563; FAX 916-752-7563.

An IBD Summit will be held April 3-4 at the University of Georgia, continuing education Center in Athens, Georgia. This summit is being called together by Watt Publishing Company with the goal of finding answers to your questions about IBD. For further information, contact Pam Ballard at Watt Publishing, 122 S.Wesley, Mt. Morris, IL 61054.

The 1995 Annual Conference of the American Association of Zoo Veterinarians - will be held August 12-17 at the Kellogg Center in East Lansing, Michigan. The conference will include sessions on: Symposium on Ecosystem Health and Biodiversity; Symposium on Health in Wetland Ecosystems; Symposium on Health and Arid Ecosystems and a joint session on Zoo and Wildlife Conservation. The traditional sessions will include: The latest in disease testing; animal transport; mammals; avian/reptile; reproduction; and animal welfare/ethics. For further information, contact Dr. Wilbur Amand, 8400 W. Girard Ave, Philadelphia, PA 19104; Phone 215-387-9094; Fax 215-387-2165.

The 1995 Poultry Science Association Annual Meeting and Expo will be held August 14-18 in Edmonton, Canada on the University of Alberta campus. Two symposiums are scheduled on the campus before the meeting begins. These include "Current Advances in Avian Embyrology and Incubation," August 13-14 and "North American Symposium on poultry Welfare," August 12-13. The National Poultry Extension Workshop is planned for Monday morning, followed by the Informal Nutrition Conference in the afternoon. For registration, exhibiting, housing and symposium information, contact PSA Headquarters at 309 W. Clark Street, Champaign, IL 61820. Phone 217-356-3182 or fax 217-398-4119.

The 16th Annual Conference and Expo of the Association of Avian Veterinarians - will be held August 28-September 2 at the Adam's Mark Hotel in Philadelphia, Pennsylvania. Over 1,000 registrants and 50 exhibiting companies are expected. For more information, please contact the AAV Conference Office, 2121 S. Oneida St, Ste 325, Denver, CO 80224. Phone 303-756-8380. Fax 303-759-8861.

World Veterinary Congress - To be held in Yokohama, Japan on September 3-9, 1995. There will be a Symposium session entitled: recent advances in research of bacterial, viral and parasitic infections in birds. For information, contact Prof. E.F. Kaleta, Institut fur Geflugelkrankheiten, Justus-Liebig-Universitat Giessen, Frankfurter Strabe 87, D 35392 Giessen, Germany. Phone 49-641-702-4865. Fax 49-641-201548.

The 11th Congress of the World Veterinary Poultry Association - will be held August 19-23, 1997 in Budapest, Hungary. For more information, contact Congress Secretariat, Congress Bureau MOTESZ, H-1443 Budapest, Hungary. Phone 361-111-6687. Fax 361-183-7918.

FOLLOWING IS THE *PRELIMINARY* PROGRAM FOR THE 1995 AAAP SYMPOSIUM, THE POULTRY ORAL PROGRAM AND THE POULTRY POSTER SESSION FOR THE 1995 AVMA MEETING

SYMPOSIUM - DRUGS AND THERAPEUTICS FOR POULTRY
PRELIMINARY

SUNDAY

8:00 am	Introduction of symposium and organizing committee - Dr. Dennis Wages
8:05 am	Welcome - Dr. Oscar Fletcher
8:15 am	Current activities of the Center for Veterinary Medicine - Dr. Steven Sundlof
9:15 am	The animal health industry and the Center for Veterinary Medicine - Dr. Martin Terry
9:45 am	The Center for Veterinary Medicine: Outside looking in - Dr. Dick McCapes
10:05 am	BREAK
10:20 am	Antibiotic use in the turkey industry - Dr. Peter Poss
10:40 am	Antibiotic use in the laying hen industry - Dr. Kenton Kreager
11:00 am	Antibiotic use in the broiler industry - Dr. Tom Holder
11:20 am	Pharmacology of drug compounding - Dr. Jim Riviere
12:05 pm	LUNCH
1:30 pm	Antibiotic resistance patterns - Dr. Doug Waltman
2:10 pm	Pharmacokinetics of the tetracyclines - Dr. Terhune
2:30 pm	Pharmacokinetics of the fluoroquinolones - Dr. John Glisson
2:50 pm	Pharmacokinetics of macrolides and aminoglycosides - Dr. Gordon Brumbaugh
3:10 pm	Pharmacokinetics of the sulfonamides - Dr. Messersmith
3:30 pm	Antibiotic sensitivity theory and interpretation - Dr. Doug Waltman
3:50 pm	The future of antibiotic use in poultry - Dr. Greg Stewart
4:30 pm	Adjournment - Dr. Dennis Wages

POULTRY ORAL PROGRAM
PRELIMINARY

MONDAY	TURKEYS	CHICKENS
8:30 am	The effect of inappropriate incubation temperature on hatchability and leg problems in young poults. Gorica Rajcic-Spasojevic, Dave P. Boeschen, Radivoje M. Spasojevic	The use of statistical process control Q charts for disease surveillance in poultry production. Dave Fernandez, Peter Lowen, John Barnes, Kelly Zering, Charles Quesenberry
8:45 am	Natural and experimental infection of turkeys with paramyxovirus-7. Y. Saif, Ram Moyhan, Dennis Senne, David Swayne	Antimicrobial resistance and epidemiology of *Escherichia coli* populations in broiler breeder chickens. Carol Ginns
9:00 am	Hemorrhagic enteritis virus induced immunomodulation in turkeys. M. Suresh, Jagdev M. Sharma	Antibiotic susceptibility of enteric spirochetes from chickens and rheas. Darrell Trampel, Joann M. Kinyon, Neil S. Jensen
9:15 am	A hemorrhagic enteritis (HE) - like syndrome observed in turkeys vaccinated with a commercially available, cell cultured HE vaccine. F. Pierson, Fidelis Hegngi, Geoff K. Saunders, Kenneth N. Opengart	The pathogenesis of a field isolate of *Listeria monocytogenes* 4B in chickens. Patricia Wakenell, Andre Ziegler
9:30 am	Hemorrhagic enteritis-associated egg production drop in breeder turkey hens. Nicholas Primm, Colin Baxter-Jones	We can not eliminate E. colisepticaemia, but we can minimize losses in poultry. Sami Lutfi
9:45 am	Egg-production drops in turkeys associated with western encephalitis virus. Hugo Medina, George Cooper, Peter Woolcock	Cellulitis - an emerging disease? Deborah Carr, David A. Halvorson, Daniel Shaw, Bret S. Rings, Don Roepke
10:00 am	**BREAK**	**BREAK**

Monday	TURKEYS	CHICKENS
10:30 am	Epidemiology of turkey viral hepatitis. H. Shivaprasad, G. Cooper, P.R. Woolcock, A. Bickford, M. McFarland, R. P. Chin	An observational prospective study on cellulitis comparing high to low incidence farms. Martine Boulianne, Marie-Andrec Fredette, Serge Messier
10:45 am	Viral hepatitis, enteritis and pancreatitis in turkey poults: electron microscopy and reproduction of disease. Peter Woolcock, H.L. Shivaprasad, Michael McFarland	A prospective study on abdominal scratches and cellulitis in broiler chickens. Abdelhamid Elfadil, Jean-Pierre Vaillancourt, Carlton Gyles
11:00 am	Vitamin A influence on tracheal lesions and heat shock protein responses to *Bordetella avium* infection in poults. Frank Edens	Preliminary information on the pathogenicity in chickens of gram positive bacteria isolated from meat and bone meal, feed and the environment. Robert Norton, Dustan F. Clark, Robert F. Wideman, John K. Skeeles
11:15 am	Effective sanitation of turkey drinking water. David Rives	Diagnosis of eastern equine encephalitis by immunohistochemistry and virus isolation in two flocks of Michigan ringneck pheasants. Susan Williams, Richard M. Fulton, John S. Patterson, Willie M. Reed
11:30 am	Cholera-like disease in commercial and breeder turkeys of unclear etiology. Kenneth Opengart, F. William Pierson, George Blackwell. Gabriel Meza	Pathological lesions associated with characterized *P. multocida* isolates from raptors. Teresa Morishita, Dale L. Brooks, Dwight C. Hirsh, Linda J. Lowenstine

11:45 am	A gram negative bacteria associated with unilateral pneumonia and high mortality in California turkey breeder flocks. Morella DeRosa, Robert Droual, Richard P. Chin, Richard L. Walker	Microbicidal activity of avian heterophil granule antimicrobial peptides. Barry Harmon, Ellen W. Evans, Gwen Beach, Mark W. Jackwood, Kristi M. Moore, John R. Glisson
NOON-2:00	**AWARDS LUNCHEON**	**AWARDS LUNCHEON**
	TURKEYS	**CHICKENS-Bacterial diseases**
2:00 pm	Gangrenous dermatitis in commercial toms. Timothy Cummings, Donald Roepke	Mice populations and their association with *Salmonella enteritidis* contamination on chicken layer farms. David Henzler, William M. Sischo, II. M. Opitz, Scott H. Hurd, Wayne D. Schlosser
2:15 pm	Practical field studies on turkey newcastle vaccination. Steven Clark	*Salmonella enteritidis* colonization of developing versus freshly laid chicken eggs. Linda Keller
2:30 pm	Tibial infarcts in turkeys. Ahmed Mutalib, William R. Maslan	Intestinal colonization and organ invasion in chicks experimentally infected with *Salmonella enteritidis* phage type 4 and other phage types isolated from poultry in the U.S. Richard Gast
2:45 pm	The vertical transmission of *Mycoplasma iowae* in commercial turkeys resulting in chondrodystrophy. R. Shannon Jennings, H. John Barnes	Colonization and invasion of chicken lymphoid cells by virulent and avirulent *S. typhimurium* strains. Jubril Hassan, Roy Curtiss, III
3:00 pm	Chortetracycline treatment for *Mycoplasma synoviae* in market toms. Brigetta Allen	A definitive analysis of the media used to isolate Salmonella from environmental sources. W. Waltman, Alice M. horn, Christine Prikle, Crissie Boyd
3:15 pm	**BREAK**	**BREAK**

3:45 pm	Pathology of experimental aspergillosis in turkeys. Robert Kunkle, Richard B. Rimler	Epizootiological studies on avian salmonellosis in Saudi Arabia. Talal Nassar, Habccb Makboul Alli-Nakli, Zeid Hamad Al-Ogaily
4:00 pm	Etiology of early respiratory syndrome (swollen head syndrome) in turkeys in Minnesota. Radivoje Spasojevic, John A Newman, Daniel P. Shaw	Pathogenic *M. gallisepticum* infection in a flock of broiler breeders. Rich Sharpton, Jr., Laddie Munger, David Ley
4:15 pm	Acute enteritis in turkey poults: effects of 6 in vitro decontamination techniques on subsequent pathogenicity in poults. Tom Brown, Don R. Howell, Jr.	Mycoplasma survey in North Carolina commercial egg layers. Laddie Munger, Kenneth G. Keenum
4:30 pm	Use of sentinels to detect infectious diseases characterized by stunting and mortality in commercial turkey flocks. H. John Barnes, James S. Guy, David V. Fernandez	Effect of polyvalent inactivated vaccine type on the incidence of false positive rapid serum plate test reactions for MG & MS. Hector Cervantes
4:45 pm	Diagnosis and prevention of chicken infectious anemia in an integrated broiler operation. Richard Chin, Chinta M. Lamichhane, H. L. Shivaprasad	Isolation of *Mycoplasma gallisepticum* from an outbreak of conjunctivitis in house finches. David Ley, J. Edward Berkhoff, Judith M. McLaren
5:00 pm	A case-control study of infectious laryngotracheitis in broiler chickens in the Niagara Peninsula. Jean-Pierre Vaillancourt, S. Wayne Martin, David Alves, Robert Hampson, Marina Brash, Elizabeth Black	Evaluation of pathogenicity of *Mycoplasma gallisepticum* isolated from a house finch in chickens and turkeys. Patrick Pilkington, Kathy S. Turner, Tom P. Brown, Stan Kleven

5:15 pm	Laryngotracheitis (LT) lung lesions in roasters and broilers associated with dual LT-infectious bronchitis (IB) viral Infections. Conrad Pope, Mariano Salem, Edwin M. Odor, Marcella V. Murphy	*Mycoplasma gallisepticum* diagnosis using nucleic acid sequence data from putative cytadhesin genes. John Dohns, Calvin L. KEeler,Linda L. Hnatow, Bruce F. Kingham
TUESDAY	**CHICKENS - Viral Diseases**	**CHICKENS - Mycoplasma & Immunity**
8:30 am	Clinical and laboratory observations regarding the diagnosis of infectious laryngotracheitis in broilers. Hector Cervantes, James S Guy	Virulence and tissue tropism of *Mycoplasma synoviae* in broiler chickens. Susan Lockaby, Frederic J. Hoerr, Lloyd H. Lauerman, Stan Kleven
8:45 am	A naturally occurring neuropathy of chickens not associated with Marek's disease. Richard Witter, Larry Bacon	Comparison between polymerase chain reaction and standard diagnostic procedures for avian mycoplasmas. Kathy Turner, Stan Kleven
9:00 am	The use of CVI988-CR6 vaccine in combination with HVT and SB1 to reduce Marek's condemnations in heavy broilers. G. Thomas Holder	Efficacy of *Mycoplasma gallisepticum* and laryngotracheitis vaccines when given simultaneously in 6 week old leghorns. Rick Phillips, John Glisson
9:15 am	Viral proventriculitis in chickens. Mark Goodwin, Kenneth Latimer, Frank D. Niagro, E. Craig Player	Development and evaluation of a recombinant vaccine against *Campylobacter jejuni* in chickens. Thomas Nemetz, Richard J. Meinersmann
9:30 am	Research update: pathogenicity studies of arenavirus-like particles from chickens. James Davis, Anthony E. Castro, Juan C. De La Torre, Brett M. Connolly, H. John Barnes	Immunity to coccidiosis. Timothy Miller, Karel A. Schat, Dwight Bowman

9:45 am	The differences between articular gout and visceral gout in chickens (birds). H. Shivaprasad	Characterization of chicken monoclonal antibody that blocks the sporozoite invasion of host lymphocytes. Hyun Lillehoj, Kazumi Sasai
10:00 am	**AAAP BUSINESS MEETING**	**AAAP BUSINESS MEETING**
	CHICKENS	**Immunity**
1:30 pm	Vitamin D3 deficiency in laying hens. David Halvorson, Daniel Shaw	Maternal immunity to *Pasteurella anatipestifer* infection in ducks and its effect on active immunization. Tirath Sandhu
1:45 pm	Pathology of tendon lesions identified in meat-type chickens during processing. Frederic Hoerr	Variation in lymphoblastogenesis, susceptibility to marble spleen disease virus and humoral response of ring-necked pheasant strains. Scott Fitzgerald, Lori S. Kunze, Amy Richard, Willie M. Reed
2:00 pm	Temperature profiles of incubation. Donna Hill	Immunomodulating effects of avian recombinant cytokines. Kemal Karaca, Barbara Winslow, Mark Cochran, Sudhir Reddy, Jagdev Sharma
2:15 pm	Hatchery influence on tibial torsal rotation in roaster breed chickens. Mac Terzich	Immunization of chickens with gene (DNA) vaccines. Calvin Keeler, Jr., David J. Poulsen, Dean R. Thureen
2:30 pm	Effect of hypoxic incubation on pulmonary vascular develpment in chickens from fast and slow-growing lines using morphometric analysis. Joan Jeffrey, H. Wayne Sampson, John D. Williams. Luis A. Martinez, Ted W. Odom	In vitro expression of the hexon protein of hemorrhagic enteritis virus in a fowlpox virus vector. Carol Cardona, Willie Reed, Keyvan Nazerian

2:45 pm	An evaluation of altitude, ambient temperature and anticoccidial effects on ascitis incidence in broilers. J. Swarztlander, Robert G. Teeter, Hector M. Cervantes	Analysis of baculovirus-expressed infectious bursal disease viral proteins. Jody Dybing, Daral Jackwood
3:00 pm	Blood volume of male line and female line meat type chickens in respect to ascites syndrome. Seyed Mirsalimi, Mohamad Zendeh Rooh Kerman, Mohamed Moafi	Vaccination of SPF leghorn chickens with a plasmid vector containing the S1 glycoprotein gene of infectious bronchitis virus. Mark Jackwood, Deborah A. Hilt, Kristi M. Moore
3:15 pm	**BREAK**	**BREAK**
	CHICKENS & OTHER	**Immunity**
3:45 pm	Relationship of intestinal "necrotic cellular debris" of broilers and possible etiological factors, e.g. biogenic amines. Robert Keirs, William R. Maslin	Protection against Newcastle and Marek's disease by in ovo administration of an HVT based recombinant vaccine. Sudhir Reddy, Nandakumar D. Reddy, Stephanie Cook, Martha Wild, Roger Schwartz, Jagdev Sharma
4:00 pm	Epidemiology of gangliosidiosis in emus. Alex Bermudez, Gayle C. Johnson, Kunihiko Suzuki	Genetically altered infectious laryngotacheitis virus vaccine. Deoki Tripathy, William M. Schnitzlein, Roger Winans, Steven Ellsworth
4:15 pm	Studies on a transmissible disease of the bursa of fabricius of ducks. Joan Smyth, M. Stewart McNulty	Pathogenicity of three variant strains of infectious bronchitis virus isolated from commercial layers and broilers. Eileen Yonzon, Mark W. Jackwood, Tom P. Brown
4:30 pm	Comparison between HPLC and a fully quantitative ELISA for rapid field detection of the anticoccidial semduramicin in feed. Fernando Lozano, Tom Garner	Analysis of the S1 gene of monoclonal antibody neutralization-resistant mutants of infectious bronchitis virus. Kristi Moore, Mark W. Jackwood

4:45 pm	Evaluation of variability among two commercial poultry ELISA systems. Daniel Lindsey, Patricia D. Andrews, David L. Kreider, Ronald W. McNew, John K. Skeeles	Evaluation of a commercial quail pox vaccine in the control of "variant" fowl pox virus infections. Willie Reed, Olufemi O. Fatunmbi
5:00 pm	Role of macrophages in virus-induced immunosuppression in chickens. Jagdev Sharma, Terence Pertile, Kemal Karaca, I.J. Kim	Evaluation of multiple vaccination strategies in layer-type chickens by infectious laryngotracheitis virus challenge. Richard Fulton, Donna L. Schrader, Willie M. Reed
5:15 pm	Detection of function-association molecules on chicken NK cells and their role in target cell lysis. Denise Bounous, Donald E. Evan, Randolph L. Brooks, Mark A. Goodwin	The use of quantitative age methodology for the determination of immunizing doses in inactivated vaccines. Kevin Bernstein, Yehudah Samberg
Wednesday	**Avian Tumor Viruses**	**Viral Diseases**
8:30 am	Reed Rumsey Award Winner	Reed Rumsey Winner
8:45 am	Identification of a small subunit of ribonucleotide reductase gene of Marek's disease virus essential for replication. Lucy Lee	Characterization of H5N2 avian influenza viruses isolated from chickens in Mexico. Dennis Senne, Robert G. Webster, Eduardo Rivera Cruz, Brundaban Panigrahy
9:00 am	Effect of insertion and deletion mutations on oncogenesis and horizontal spread of the RBIB strain of Marek's disease virus. Robin Morgan, Mark Parcells, Amy S. Anderson, Jennifer Kent	Testing of Mexican avian influenza viruses in 14-day chicken embryos for emergence of highly pathogenic variants. David Swayne, Michael L. Perdue, Max Brugh
9:15 am	The role of open reading frame L1 of Marek's disease virus in latency and transformation. Karel Schat, Guus Koch, Bart J. L. Hooft van Iddekinge	Pathogenesis of ratit-origin influenza virus infections in chickens. Richard Slemons, William L. Fischbach, Sally A. Goclan

9:30 am	Class I, MHC-restricted, cytotoxic T lymphocyte response to avian leukosis virus using target cells expressing MHC Class I CDNA using an ALV vector. Eileen Thacker, Janet E. Fulton, Henry D. Hunt	Is the pigeon susceptible to avian influenza? Brundaban Panigrahy, Dennis A. Senne, Janice C. Pederson, Amy L. Shafer, James E. Pearson
9:45 am	Detection and characterization of lymphokines and protective antigens in the supernatant of JMV-1 lymphoblastoid cell-line. Martin Sevoian, Amrut Bhogle	Evaluation of pigeon Newcastle diseae virus isolates. Daniel King
10:00 am	**BREAK**	**BREAK**
	Avian tumor viruses IBD, POX REO	**Viral diseases CAV and DVE**
10:30 am	Avian leukosis virus testing of SPF flocks. Stephen Muir	Detection of chicken infectious anemia virus antibodies utilizing a competitive ELISA. Phyllis Tyrrell, Valerie L. Leathers
10:45 am	Comparative evaluation of three methods for detection of reticuloendotheliosis virus as a contaminant in a live-virus vaccine of poultry. Aly fadly, Richard L. Witter	Evaluation of incidence of chicken anemia virus (CAV) in thymic tissues by MTT assay and molecular biology techniques. Jayanti Dash, John Kirk Skeeles, Lisa Newberry
11:00 am	Detection of infectious bursal disease virus using PCR-RFLP. Holly Sellers, Pedro Villegas, Mark W. Jackwood	Characterization of chicken anemia virus infection in SPF chickens using DNA based PCR test. Mazhar Khan, Tom Frederickson, Amin A. Fadl, Ted Girshick
11:15 am	Polymerase chain reaction (PCR) for diagnosis of fowlpox. Deoki Tripathy	Studies on the pathogenesis of CAV infection in 3-week-old birds and on the interaction of CAV with adenoviruses and reoviruses. Joan Smyth, Francis McNeilly, Deborah Moffitt, M. Stewart McNulty

11:30 am	An agar gel enzyme assay (AGEA) for detection of antibodies to poxvirus in chicken and turkey sera. Olufemi Fatunmbi, Willie Reed	Results of vaccination of breeders with a live attenuated "chicken anemia virus" vaccine. Aristoteles Malo, Carla Schrier, Wouter Steenhuizen, Eric Jagt
11:45 am	Assessment of reovirus infection in SPF chickens using a cDNA reovirus probe. Tom Fredericksen, Ted Girshick, Amin Fadl, Mahzer Khan	Evaluation of inactivated duck herpesvirus vaccine to induce protection against challenge with virulent domestic and wild duck virus enteritis isolates. Samia Shawky

POULTRY POSTER PROGRAM
PRELIMINARY

1. Richard Witter and David Shapiro: The early days of AAAP and Avian Medicine.
2. Jean Sander: An interactive computer program for teaching poultry diseases.
3. Jeanne Brugere-Picoux, Martine Boulianne, Jean-Pierre Vaillancourt, Amer Silim: Avian epidemiological, clinical, microbiological and pathological post-graduate training: a cooperative international french spoken approach.
4. Richard Julian: Salt (sodium) poisoning in chickens.
5. James Andreasen, Jr. Claire B. Andreasen, Anita E. Sonn, Donald C. Robeson: Effect of hemolysis on poultry serum chemistries.
6. Gloria Avellaneda, Pedro Villegas: Serological survey of chicken anemia virus in Columbia.
7. Robert Droual, Richard Chin, Janet Moore, Scott Fitzgerald: Necrotic enteritis in a turkey flock associated with hemorrhagic enteritis.
8. Marie-Andree Fredette, Martine Boulianne, Serge Messier: Cellulitis in broiler chicken: a two year retrospective study.
9. John McCarty, Tom P. Brown, John R. Glisson: Broiler bursa histopathological evaluation: a comparison of health vs.vaccination programs.
10. Seyed Mirsalimi, Sadegh Rahbari, Mohamad Moafi: The effect of mint plant on prevention of coccidiosis.

11. Terence Pertile, Kemal Karaca, Jagdev M. Sharma, Mary M. Walser: Nitric oxide prevents in vitro reovirus replication.

12. Gireesh Rajashekara, Kakambi V. Nagaraja, Samuel D. Charles, Sally L. Noll, David A. Halvorson: Role of excessive levels of iron in water on *E. coli* infection in turkey poults.

13. Jean Sander, Nick Dale, Lloyd Bennett, Tiande Cal: Biogenic amines in recycled poultry carcasses.

14. Nathaniel Tablante, Jean-Pierre Vaillancourt, S. Wayne Martin, Mohamed Shouhri: Temporo-spatial distribution of cannibalism in a 20,000 egg-layer flock.

15. Eric Willingham, Jean E. Sander, Stephan G. Thayer, Jeanna L. Wilson: Investigation of bacterial resistance to hatchery disinfectants and the effect of yolk sac contamination on chick quality.

16. Tom Brown, Kathy S. Turner, Don R. Howell, Jr.: Detection of *Mycoplasma gallisepticum* by polymerase chain reaction in formalin-fixed tracheal swabs and histologic sections.

17. Llyod Lauerman, Jo Closser, Sherry L. Thomassy: Identification of avian mycoplasmas using restriction fragment length polymorphism analysis.

18. Valerie Leathers, Kathy Esty, Phyllis Tyrrell: Detection of antibodises against *Mycoplasma gallisepticum*, *Mycoplasma synoviae* and *Mycoplasma meleagridis* in turkey sera with ELISA.

19. Judith McLaren, David H. Ley, J. Edward Berkhoff, Alan P. Avakian: Immune response in chickens to *Mycoplasma gallisepticum* membrane proteins incorporated into immunostimulating complexes.

20. Pratik Singh, John A. Newman: Characterization of a 41-kilodalton immunogenic protein of *Mycoplasm iowae.*

21. Phyllis Tyrrell: Detectin of *Mycoplasma iowae* and *Mycoplasma meleagridis* utilizing PCR and synthetic DNA probes.

22. Tom Brown, John A. Smith, Don R. Howell: Spiking mortality in broilers: effects of vaccination of broiler chicks.

23. Manuel Colemenares, Manuel Trivino, Ruben Bolivar: Cryptosporidiosis in stunting chickens.

24. James Guy, John Barnes, Michele Hawk: Interaction of enteric viruses and cryptosporidium Spp. in the pathogenes.

25. Thomas Bryan, Richard M. Fulton, Thomas A. Hooper, Tsang L. Lin, Robert E. Porter, Mary M. Woodruff, Ching C. Wu: Diagnostic experiences with turkey coronaviral enteritis.

26. Tom Brown, William H. Emory, Don Howell, Jr.: Acute enteritis in turkey poults: chickens and cattle as subclinical carriers.

27. Margo Holland, Robert F. Silva: Identification and characterization of HVT latency-associated transcripts.

28. Ping Wu, Dexin Sui, Lucy Lee: Characterizations of Marek's disease virus glycoprotein gp62.

29. Lisa Nolan, David L. Berryhill, Dawn M. Doetkott, Catherine W. Giddings: Plasmid-mediated complement resistance in avian *Escherichia coli.*

30. Alberto Back, Kakambi V. Nagaraja, Iftikhar Hassain, Vaithianathan Sivanandan, David A. Halvorson: Influence of live Newcastle disease vaccine and HE splenic vaccine on *E. coli* pathogenesis.

31. Masakazu Matsumoto, Donald D. Chen: Qualitative and quantitative differences in LPS-related components produced by various strains of *Pasteurella multocida.*

32. Andrea Miles, H. John Barnes: Factors affecting *E. coli* clearance in turkeys.

33. A. Singh Dhillon: Colibacillosis in commercial caged layers.

34. Francene van Sambeek, Birch L. McMurray, R. Kenny page: An air sampling study on the effects of downtime on decreasing bacterial loads in broiler houses.

35. Jeffrey Kula, Carey L. Quarles, Linda M. Pote: Efficacy of Aviax (semduramicin sodium) in combination with virginiamycin and roxarsone.

36. J. Lloyd Spencer, James R. Chambers, H. Wayne Modler, Edward R. Farnworth: Competitive exclusion of Salmonella in chickens fed vermicompost and complex carbohydrates.

37. Akbar Ali, Donald Lee Reynolds: Propagation of group D rotaviruses in-vitro: a liposome mediated approach.

38. Masoudreza Shapouri, Marieme Kane, Max Arella, Amer Silim: Cloning, sequencing and expression of S1 gene of avian reovirus S1133 strain.

39. Amer Silim, Masoudreza S. Shapouri: Replication of avian reovirus in trukey macrophage cultures.

40. Vaithianathan Sivanandan, Chandrathilaka K. Perera, Sagar M. Goyal, Kakambi V. Nagaraja, David A. Halvorson: Type specific dot blot ELISA to detect avain influenza virus.

41. Lisa Newberry, John K. Skeeles, Ronald W. McNew: Serum chemistry profiles of turkeys following acute virulent hemorrhagic enteritis virus challenge.

42. James Andreasen, Jr., Ferhat Abbas: Diagnostic techniques for infectious laryngotracheitis.

43. Chinta Lamichane: ELISA for the detection of antibody to chicken anemia virus.

44. Simon Shane, Elizabeth J. Wilson: Defining buying decisions for poultry vaccines.

45. Alan Avakian: Newcastle disease virus-antiserum complex vaccines administered to SPF and broiler chickens.

46. Cheong-up Choi., Kakambi V. Nagaraja, Gireesh Rajashekara: Transfection of group II avian adenovirus DNA into cell culture using liposome.

47. Eid Haddad, Lisa A. Newberry, Craig E. Whitfill, Alan P. Avakian, Catherine A. Ricks, John K. Skeeles: Safety and efficacy of a novel avian tenosynovitis vaccine prepared by complexing the virus with reovirus antisera and administered in ovo to 18-day-old SPF embryos.

48. Kakambi Nagaraja, Iftikhar Hussain, Cheong-up Choi, Vaithaianathan Sivanandan, David A. Halvorson: Maternal antibody and its interference with efficacy of splenic cell culture haemorrhagic enteritis vaccine.

49. Daniel Weinstock, Edward V. DeBuysscher, Marsha W.D. Ward, Mitsu M. Suyemoto: Recombinants expressing Newcastle diseae virus nucleoprotein confer protective immunity in chickens.

50. Nadia Yousef, Nabil Adly, Abd Elwanis, Nagwa E. Ahmed, Abozid Agmed Abozid: Studies on cryptosporidiosis in ducks and its effect on immune response of duck virus hepatitis vaccine.

51. Robert Porter, Terry L. Bowersock, Kinam Park: Use of biodegradable microspheres for the oral immunization of chickens.

52. Martin Sevoian, Kesuo Fan, Denis Gonzales: The producion, characterization, and adaptation of a naturally-occurring biodegradable polymer as a controlled biological delivery system.

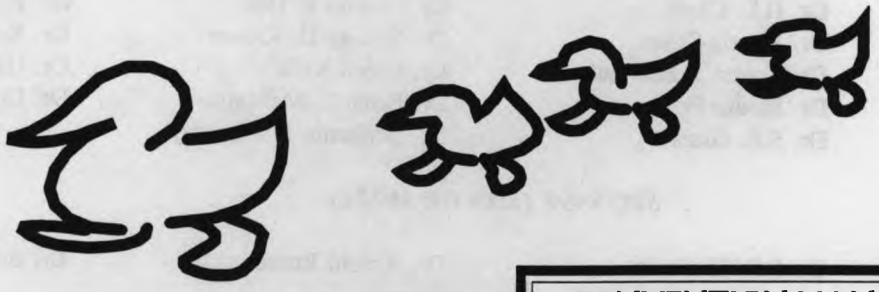
53. Daral Jackwood, Renee J. Jackwood: Development and use of an ELISA for the identification of antibodies to variant strains of infectious bursal disease viruses.

54. Ching Ching Wu, Tsang Long Lin, Aydemir Akin: Detection and quantitation of infectious bursal disease virus sequency by competitive polymerase chain reaction.

55. Tsang Long Lin, Ching Ching Wu, Robert W. Keirs: Infectious bursal disease virus in non-vaccinated broilers.

56. Mark Goodwin, Kenneth S. Latimer, E. Craig Player, Frank D. Niagro, Raymond P. Campagnoli: Polyomavirus inclusions in chicken cecal epithelium.

57. Mark Goodwin: Esophageal and proventricular cryptosporidiosis in a chicken.



Dr. David Henzler, Poultry Epidemiologist with the SE Pilot Project and PEQAP received the 1994 College of Veterinary Medicine Distinguished Alumnus Award from North Carolina State University on April 29, 1994. His major contributions have been in the area of rodent control and research as it relates to the prevention of SE in poultry flocks.

CONVENTION MANAGER RETIRES FROM AVMA

THE AVMA IS BIDDING FAREWELL TO CONVENTION MANAGER ROBERT SCHLAX. MR. SCHLAX, WHO JOINED THE STAFF ON DEC. 1, 1986, HAS DECIDED TO RETIRE. HE HAS COORDINATED SEVERAL RECORD BREAKING CONVENTIONS. IN HIS CAREER, MR. SCHLAX HAS COORDINATED MORE THAN 300 MEETINGS AND 23 CONVENTIONS FOR FOUR ASSOCIATIONS, INCLUDING A TOTAL OF EIGHT FOR AVMA. HE PLANS ON SPENDING MORE TIME ON HIS HOBBIES, INCLUDING MOTORCYCLING, SNOWMOBILING AND BOATING.

Residency position in raptor and avian medicine available at The Raptor Center, University of Minnesota. Applicants should be recent graduates (within five years) of AVMA accredited colleges or schools of veterinary medicine, or equivalent from a foreign institution. Background training and experience in wildlife subjects, experience in rehabilitation of wildlife, expecially avian species, and a broad interest in ecology and conservation issues in wildlife issues is desirable. The program's objective is to provide further traning in avian clinical medicine to persons holding a DVM degree and accomplishment of a Masters Degree. The Masters degree can be in one of several areas of clinical sciences such as surgery, anesthesia, microbiology, pharmacology, or toxicology, but may also involve basic research in pathology or physiology. Send a letter of application, transcript of CVM grades, curriculum vitae or resume and three letters of reference to Dr. Patrick T. Redig, The Raptor Center, College of Veterinary Medicine, Universityof Minnesota, 1920 Fitch Ave, St. Paul, MN 55108. Letter of application should contain a statement of how you perceive this residency contributing to your professional goals. EOE

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. R.A. Bankowski
Dr. H. John Barnes
Dr. Charles W. Beard
Dr. Arthur A. Bickford
Dr. Everett Bryant
Dr. Max Brugh
Dr. B.R. Burmester
Dr. Bruce W. Calnek
Dr. H.L. Chute
Dr. Morris Cover
Dr. Robert J. Eckroade
Dr. Monte Frazier
Dr. S.E. Glass
Dr. Mark Goodwin
Dr. L.C. Grumbles
Dr. Charles F. Hall
Dr. Stanley H. Kleven
Dr. Glenn Kolb
Dr. Birch L. McMurray
Dr. Benjamin S. Pomeroy
Dr. Sam Schmittle
Dr. Glenn H. Snoeyenbos
Dr. R.W. Winterfield
Dr. Richard L. Witter
Dr. Harry W. Yoder
Dr. Donald V. Zander

SPONSOR ($500 OR MORE)

Dr. Charles Darby
Dr. S.B. Hitchner
Dr. Arnold Rosenwald
Dr. Edward E. Stuart

DONOR ($100 OR MORE)

Dr. G.W. Albright
Dr. Calvin Anthony
Dr. James Arends
Dr. Lawrence Arp
Dr. Roscoe Balch
Dr. Joseph Beasley
Dr. Dick Boyd
Dr. Heinrich Brandt
Dr. Kim Brinton
Dr. C.H. Cunningham
Dr. John Donahoe
Dr. Nicholas Dorko
Dr. H.L. Easterbrooks
Dr. Robert K. Edson
Dr. Doug Erbeck
Dr. Julius Fabricant
Dr. Jack Gelb
Dr. Yan Ghazikhanian
Dr. W.B. Gross
Dr. M.A. Hammarlund
Dr. Kenneth Heddleston
Dr. Fred Hoerr
Dr. Keith Honegger
Dr. Min Hsiung Hwang
Dr. Richard Julian
Dr. Daniel King
Dr. David Kradel
Dr. John Lancaster
Dr. Eric Lovell
Dr. Edward Mallinson
Dr. Bryan Mayeda
Dr. Michael McCabe
Dr. Thomas Migaki
Dr. L.G. Morehouse
Dr. Linnea Newman
Dr. Norman Olson
Dr. James Pearson
Dr. Jean Petter
Dr. Peter Poss
Dr. Dennis Rahn
Dr. Merrill Ranck
Dr. Keith Rhoades
Dr. Craig Riddell
Dr. I.D. Russell
Dr. Y.M. Saif
Dr. L. Dwight Schwartz
Dr. Simon Shane
Dr. David Shapiro
Dr. Jagdev Sharma
Dr. Louis Shor
Dr. A Silim
Dr. Don Simmons
Dr. Wilfred Springer
Dr. David Swayne
Tri Bio Laboratories
Dr. Louis van der Heide
Dr. Pedro Villegas
Dr. Donald W. Waldrip
Dr. Lloyd Weber
Mr. Dennis Winkler
Dr. Richard Yamamoto

CONTRIBUTOR (LESS THAN $100)

Dr. James Bivins
Dr. Thomas Bryan
Dr. A.E. Castro
Dr. Richard Chin
Dr. Gregg Cutler
Dr. Jack Douglas
Dr. Joseph Giambrone
Dr. D.A. Halvorson
Dr. Lyle Hanson
Dr. Roger Harvey
Dr. Gail Heyer
Dr. Bernardo Koojic-Rousseil
Dr. Kenton Kreager
Dr. Benjamin Lucio
Dr. Gordon Miller
Dr. Ralph Mitchell
Dr. Thomas Myers
Dr. Robert Nordgren
Dr. Robert Olsen
Dr. James Patterson
Dr. William Patton
Dr. Michael Perdue
Dr. H.G. Purchase
Mr. Paul Rebers
Dr. Don Reynolds
Dr. John Richard
Dr. Charles Roney
Dr. Michael Ruff
Dr. Tirath Sandhu
Dr. Thomas Sawa
Dr. Charles Smyser
Dr. Bruce Stewart-Brown
Dr. Antonio Colinas Tovar
Dr. Eva Wallner-Pendleton
Dr. Mary Walser

POSITIONS AVAILABLE

There is a position available at the Georgia Poultry Laboratory for a **veterinary poultry diagnostician**. A DVM degreee or equivalent is required with poultry experience desirable. However, we will consider recent graduates without poultry experience. Responsibilities will 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, Georgia 30566. Phone 404-535-5996.

An **Assistant Professor** position is available at the Department of Poultry Science, Auburn University. This is a research and teaching position in the area of poultry health with emphasis on bacterial diseases. This is a 12 month tenure track appointment. Qualifications include a PhD in poultry science, microbiology or related discipline. A firm understanding of molecular techniques is necessary. Responsibilities will be approximately 80% research and 20% teaching. The successful candidate will be responsible for developing a strong independent research program and participating in collaborative research projects within the department as well as with researchers from other departments and colleges. The successful candidate should be able to communicate with others in poultry science and the poultry industry. Rank and salary commensurate with qualifications and experience. Send application letter, curriculum vitae and names of 3 references to:
Robert Brewer, Head, Department of Poultry Science, Auburn University, AL 36849, Phone 205-844-2601.

The Department of Neurology, Baylor College of Medicine seeks application for a tenure-track position at the level of **Post-Doctorate Fellow, Research Associate, or instructor**. The successful candidate should have experience in techniques of neuroanatomy in avians and will focus on neuroanatomy as well as physiology of speech-related motor output in psittacines and related species. The successful candidate will have access to facilities related to animal research and is expected to develop an active laboratory in the domain of speech-motor output in psittacines, focusing on anatomy and motor control. Those interested should submit a curriculum vitae as well as four letters of recommendation sent directly from references to David B. Rosenfield, MD. Stuttering Center Speech Motor Control Laboratory, Department of Neurology, Baylor College of Medicine, Houston, TX 77030. EOE

Position available at Vineland laboratories in Vineland, New Jersey for a veterinarian interested in registration of poultry vaccines in foreign countries. Resume with full particulars should be sent to Dr. S. Kumar, Vice President, Vineland Laboratories, 2285 East Landis Ave, Vineland, NJ 08360. Phone 609-691-2411 ext 571. Fax 609-691-1177.

AIRPORT TRANSFERS ORDER FORM

Tickets will be mailed to your address no later than two weeks prior to your departure date.
Details on return service to the Airport will be sent to you along with your tickets.

Pittsburgh-based AIRLINES TRANSPORTATION COMPANY is centrally located on the Commercial Side of the baggage claim area (lower level behind visitor's information center). Both domestic and international arrivals utilize the same baggage claim area. The ticket desk is identified by a large lighted sign reading "Airlines Transportation". Departures are on the same level as the baggage claim area. Exit the airport through a door located next to the ticket desk. Directly outside, no streets to cross, you will board the buses along the blue curb, where a portable post-type sign identifies Airlines Transportation.

The Downtown Route services the Vista, Wm. Penn, Hilton, Hyatt and Ramada hotels.
Departure times are coordinated with flight arrivals.

The Oakland Route services Sheraton Station Square as follows:

Weekdays	9:00 AM - 9:00 PM Every Hour
Saturday	9:00 AM - 5:00 PM Every Other Hour
Sunday	10:00 AM and 12 Noon
	2:00PM - 9:00PM Every Other Hour

Green Tree Hotels: Best Western, Hampton Inn, Holiday Inn, Marriott.
These facilities provide complimentary service from Pittsburgh International Airport. Pick up the courtesy phone for the appropriate hotel in the luggage claim area for instructions about where to meet the courtesy van.

ADULTS: *(Children under 12 are carried free-of-charge)*

One way $12.00 (Non Refundable) Roundtrip $20.00 (Non Refundable)

Mailed tickets are valid for travel through July 31st.

Policy regarding tickets forgotten or delayed in mail: You will be required to purchase a new ticket from our on-site ticket sales. After you return home, simply mail us your original ticket. We will process a full refund after July 31st.

Policy regarding lost tickets: You will be required to purchase a new ticket from our on-site ticket sales. You will also complete a refund request form when you purchase your replacement ticket. Refunds will be processed after July 31st., providing the original ticket issued was not used for transportation. A $2.00 processing fee will be assessed and deducted from the refund when it is mailed.

Our Customer Service Phone Number is **(412) 471-8900.** Please contact us with any questions or concerns.

We would really appreciate early registration and enclosure of a pre-addressed return envelope. Please print clearly when completing the form below. Thank you for allowing us to serve you.

Number of Tickets:_____ One Way _____ Round trip_____

Total Amount Enclosed: $ _____ ☐ Check ☐ Credit Card

Card: ☐ Visa ☐ MasterCard ☐ Discover ☐ American Express

Exact Name on the Card: _____ Account No: _____

Expiration Date: _____Cardholder Signature: _____

If paying by check, please make payable to Airlines Transportation Co.

Name: _____

Address: _____

City: _____ State:_____ Zip: _____

Day Phone: _____ (Your ticket cannot be processed without name, address and phone number)

Date of Arrival: _____ Time Flight Arrives: _____ Airline: _____Flight #:_____

Date of Departure: _____ Time Flight Departs: _____ Airline: _____Flight #: _____

Hotel in Pittsburgh: _____

Mail this form and payment to: Marty Petriga,
Airlines Transportation Company,
530 Wm. Penn Place, Pittsburgh, PA 15219.

Your form and payment should arrive no later than June 16, 1995. No forms will be accepted after June 16, 1995.

Dr. Richard Witter (right) receives the Pfizer Excellence in Poultry Research Award (sponsored by Pfizer Animal Health) from Dr. Brett Hopkins (left) of Pfizer.

Dr. Wilson Miller (right) receives the AAAP Certification of Appreciation from AAAP President Dr. John Gilsson (left).

Dr. Richard Witter (left) receives the P. P. Levine Award for the best paper published in Vol. 41 of *Avian Diseases* from Dr. Louis van der Heide (right).

Dr. Richard Witter (right) receives the AAAP Special Service Award from AAAP President Dr. John Glisson (left).

on all other aspects of Marek's disease. Dr. Witter has also made major contributions to our knowledge of lymphoid leukosis and reticuloendotheliosis. In his function as Director of ADOL, he was responsible for the development of long-term programs, which set the stage for major contributions on avian genetics and ge-