

aaap

AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS

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AAAP SUMMER NEWSLETTER

JUNE 7, 1993

ENCLOSURES FOR YOUR REVIEW

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Positions Wanted
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AAAP Function List
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List of Commercially Available Avian Diagnostic Reagents*

**1993 AVMA-AAAP MEETING IN
MINNEAPOLIS**

The program for the NEWLY EMERGING AND RE-EMERGING AVIAN DISEASES: APPLIED RESEARCH AND PRACTICAL APPLICATIONS FOR DIAGNOSIS AND CONTROL symposium and the AVMA-Avian Medicine Scientific program is enclosed. The scientific program begins with the Symposium and the poster paper session on Sunday, July 18 and the platform papers on Monday, July 19 and goes through Wednesday noon. Please note that there will be dual sessions this year. All of these sessions will be held in the Minneapolis Convention Center. The Board meetings and AAAP committee meetings will be held in the Minneapolis Hilton.

Our **AWARDS LUNCHEON** will be held on Monday, July 19 from noon to 2. Luncheon tickets must be purchased from this office prior to the meeting.

The AAAP Board of Directors will meet all day Friday, July 16 and Saturday, July 17 and again Wednesday morning. Any member having business to bring to the Board is welcome.

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 and give him a business card. Please do not call after the meeting and ask me to remember you were there.

AVMA MEETING RESERVATION FORMS - are available through the regular issues of JAVMA. **NON AVMA MEMBERS SHOULD WRITE TO MR. ROBERT SCHLAX TO OBTAIN REGISTRATION FORMS.** AVMA, 1931 North Meacham Road, Suite 100, Schaumburg, IL 60173.

SOLVAY ANIMAL HEALTH INC. - invites all those attending the 1993 AAAP meeting in Minneapolis to join us for hors d'oeuvres and cocktails on Monday, July 19, 1993 at our Research and Administration office complex located about 20 minutes from the Convention Center. Buses will leave the Convention Center every half hour starting at 5:30 pm. The last bus will depart for Solvay at 8:00 pm. Buses will return people to the Convention Center every half hour starting at 7:00 pm. The last bus will leave Solvay at 9:30 pm. Please come and enjoy this opportunity to interact with other AAAP members in a social setting. Tours will be given for those interested. Families of AAAP members are welcome.



FOR YOUR INFORMATION

Dr. Stanley Kleven has been appointed to represent the avian medicine specialty in the FDA's Veterinary Medicine advisory Committee (VMAC).



AMERICAN COLLEGE OF POULTRY VETERINARIANS - 1994 exam to be given at the AVMA meeting in San Francisco. Deadline for application for 1994 is November 1, 1993. Please contact Dr. Kirk Skeeles at (501) 575-4390 after August 1, 1993 for more information.

In accordance with Article IV, Section 4-05, the annual meeting of the college will take place at 8:30 am, Tuesday, July 20, 1993, in Ballroom E of the Minneapolis Hilton and Towers. The meeting will follow the 7:30 am reception for new

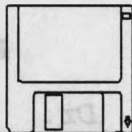
diplomates to which all members of the college are invited.



The Avian Histopathology Interest Group is planning this year's annual meeting in Minneapolis. They are scheduled in the Hennepin Room at the Hilton on Sunday, July 18 from 6:30 to 9:30 pm. As in the past, this will be an informal meeting and discussion between participants of cases will be encouraged. If you wish to present case material at this year's meeting, please contact Dr. Tom Brown. Kodachromes and glass slides of your microscopic lesions should be taken to the meeting. Presentations should be held to a maximum of 15 minutes and 5-10 should suffice for most. Cases should center on either classic microscopic presentations of avian diseases, or unusual lesions that would stimulate discussion by the group. There will be 2 X 2 projectors and microscopes in the room for viewing and discussion of materials.

1992-93 COMMITTEE REPORTS

VETERINARY LICENSING CTE Lanny Howell, Chair



This committee has been very busy trying to address the issue of a national limited license for poultry veterinarians. This issue was raised at the last AAAP annual meeting in response to some of the actions the FDA has taken as well as some proposed.

There are many veterinarians in the AAAP who work with the poultry industry from several to many states. These include veterinarians working for companies that service the poultry industry, consultants, and those employed by poultry companies.

The regulatory environment is

moving more toward the veterinarian having to write prescriptions on various medications used in the poultry industry. There is a proposal now by FDA to require this on feed medications. This is going to require a poultry veterinarian to be licensed in every state he/she works in order to write a prescription for a particular medication he/she recommends to the poultry company(s).

I contacted Dr. George Barrows, Secretary/Treasurer of the American Association of Veterinary State Boards (AAVSB) to discuss our proposal for a national limited license for poultry veterinarians. He requested a proposal be sent to him so it could be discussed at their Executive Board meeting. The Board's decision was to present the proposal before the AAVSB general membership at the upcoming AVMA meeting. Dr. Barrows expressed several concerns about a proposal for a limited national license.

1. The AAVSB has no direct authority or jurisdiction over state licensing. They serve only in an advisory capacity.

2. This is not the first time AAVSB has received a proposal for a national license.

Depending on the outcome of AAVSB general membership's decision, the AAAP Licensing Committee will consider other options. The Committee welcomes suggestions from the AAAP membership as to options to address this problem.

PRECEPTORSHIP COMMITTEE Martin Ficken, Chair

In 1992, the Preceptorship Committee underwent membership changes due to the illness of Dr. Michael Rosenstein who was the chairman of the committee. Dr. Martin D. Ficken of North Carolina State University was elevated to interim chairman for the year and

Dr. David Halvorson of the University of Minnesota was added to the committee as a member. The other members of the committee include Dr. Ken Eskelund of Maine Biologics Laboratory, Dr. Alex Bermudez of the University of Missouri and Dr. Danny Magee of McCarty Farms in Mississippi.

Seventeen applications for the six positions were received. Applications were received from students at Tufts (5), North Carolina State (3), Missouri (2), Cornell (1), Tennessee (1), Louisiana State (1), Washington State (1), Michigan State (1), Florida (1) and Atlantic Veterinary College (1). The committee was asked to rank the applicants 1 through 17 based on criteria they thought important. The rankings of the four members (chairman excluded) were tabulated and each applicant was given a total and average score. From the composite scores there was a clear-cut division after the top seven applicants and also another clear-cut division after the top 10.

It was recommended that at least the top seven, and preferably the top 10, applicants be funded. Dr. Eskelund indicated that he wanted the board to consider funding an additional two positions (besides the original six already in place) and that he would match that contribution so that the top 10 applicants could be funded. The board consented and the top 10 applicants received financial assistance.



NOMINATING COMMITTEE Birch McMurray, Chair

The AAAP Nominating Committee which consists of Dr. Peter Poss, Dr. Craig Riddell and Dr. Birch McMurray are pleased to place in nomination the following slate for 1993-94.

President: Dr. David Halvorson
Pres-Elect: Dr. Oscar Fletcher
Secr-Treas: Dr. Robert Eckroade
Dir at Lge: Dr. Jagdev Sharma
Dir at Lge: Dr. John Glisson
(to replace unexpired term of Dr. Gary Edwards)

We respectfully submit this slate of nominees for consideration by the Board and Membership of AAAP.

TOXIC, INFECTIOUS AND MISCELLANEOUS DISEASES COMMITTEE Roger Harvey, Chair

The committee met with the AAAP Board of Directors, Boston, MA, Aug. 1, 1992 with a proposal to sponsor the 1993 Avian Disease Symposium the day prior to the scientific session at the annual meeting. Following the committee's presentation to the board, the board voted to accept the proposal and fund the symposium entitled, "Newly Emerging and Re-Emerging Avian Diseases: Applied Research and Practical Application for Diagnosis and Control" on July 18, 1993, Minneapolis, MN.

The committee met for their regular business meeting, Monday, Aug. 3, 1992 at 5:30 pm at the Boston Marriott-Copley Place. Subcommittee assignments were made for program topics, speaker selection, and compilation of proceedings. Program moderators will be Drs. David Mitchell, David Swayne, Roger Harvey and Colin Baxter-Jones. Program topics will be Mycoplasmas, Disease Interactions, Reproductive Failure and Rhinotracheitis. The meeting was adjourned at 7:00 pm.

AAAP BIOTECHNOLOGY COMMITTEE

Daral Jackwood, Chair

The Biotechnology Committee has assembled a list of video tapes on various molecular biology subjects. These tapes can be purchased and in some cases borrowed from several distributors. If you are interested in purchasing video tapes a company called Taped Technologies has a relatively comprehensive list. Their address is: Taped Technologies, PO Box 384, Logan, UT 84323-0384, Phone 800-995-1110, Fax 801-752-5615. Examples of the titles they offer include: "Restriction Enzyme Digestion", "Agarose Gel Electrophoresis", "Bacterial Transformation", "Probes-Southern Blot Hybridization", "Plasmid DNA Preparation", "DNA Sequencing" and "Polymerase Chain Reaction".

Our Committee has also compiled a list of courses and wet laboratories designed to improve skills or teach new skills in molecular biology. These programs are offered by a variety of institutions including most major universities and are offered at several levels from introductory to advanced. Universities usually offer these during the summer months for 2 to 4 weeks. For more information contact the continuing education program at your University of choice or an AAAP Biotechnology Committee Member. Short courses in molecular techniques are also offered by the American Type Culture Collection (301-770-1805), Life Technologies Inc. (301-921-2250), Exon-Intron Inc. (410-730-3984), LTI Training Center (800-952-9166) and Armed Forces Institute of Pathology (301-427-5231).

PROGRAM ADVISORY COMMITTEE

Oscar J. Fletcher

Following is information regarding the AAAP Program:

Total Requests:	172
Posters:	68
Oral:	93
Withdrawals:	6
Not Accepted:	2
Late/other:	3
Plus - Symposium Moderators	16 32

Total amount of support awarded: \$29,108.

SKELETAL DISEASES COMMITTEE

Yan Ghazikhanian, Chair

Leg problems still exist in broilers. 90% mortality in pullets and up to 50% in fast growing broilers could be attributed to leg problems. Most leg problems in pullets related to staph infection and growth curve.

It is suspected that most broiler locomotor problems stem from femoral head necrosis due to growth, nutrition and staph infection in order of incidence. Slowing the early growth rate does help to curve down the problem.

Broiler leg deformities are second in importance to FHN and tendon rupture which is not uncommon to experience.

Shorter legged breeds/lines are less susceptible to leg problems. It has been commented that most broiler lamenesses are related to nutrition, then secondary to genetics in as far as the nutritional requirements. This is an area which deserves research.

It appears that non-infectious leg problems in turkeys are being reduced since the primary breeders attempting to reduce early fast "fleshing" (early high breast meat yield) strains in favor of early better skeletal growth and late "fleshing". It is too early to determine if the incidence of natural occurrence of TD is reduced or not because of changes in turkey growth curve.

Salmonella related synovitis and osteomyelitis have lately been observed in young turkeys in 2 or 3 states. Osteomyelitis due to other infectious agents (staph, E. coli, actino, pasteuris, etc.) reported from some states.

Farm management neglect (high density and poor litter management) and occasional faulty ration formulation and mechanical or human related feed mixing errors for young growing turkeys do occur and do contribute to some level of leg problems in turkeys.

MEMORIAL FUND COMMITTEE

Ben Pomeroy, Chair

The Memorial Fund Committee embarked on a financial campaign in 1992 to provide additional funds so the AAAP Foundation could expand its activities. We had excellent responses from the membership and have continued the campaign in 1993. Over the two year period, 86 members and one company have contributed one or more times and approximately \$28,000 has been raised.

In 1993, over 50 individuals have contributed for the first time, a very remarkable increase over 1992. A member contributing to the Foundation will be given credit for each year's donation and the total will accumulate each time a gift is made. The Foundation has a 501C3 status with the Internal Revenue Service and all contributions are tax deductible.

The Foundation has three specific funds established by generous gifts of three individuals, Dr. Ken Eskelund, Dr. Hiram Lasher, and Dr. Reed Rumsey. Because interest income has fallen below that needed to continue these programs at the current level, your continued support of the Foundation is needed to maintain and expand its activities.

REFERENCE ANTISERA COMMITTEE

Sharon Hietala, Chair

The 1992 committee prepared a list of commercially available avian diagnostic reagents. The reagent list and list of product suppliers are attached at the end of the newsletter.

The committee discussed the issue of reference antisera panels, which should include specific antisera of various strengths, to be used in standardizing serologic tests on a national level. The issues of cost, quality control responsibility, and liability were discussed from the standpoint of contracting with private laboratories for production of reference antisera. Several private companies were contacted concerning the feasibility of providing (marketing) reference antisera panels, with an emphasis on an immediate need in Mycoplasma testing (plate agglutination, hemagglutination inhibition, and ELISA testing). Not all companies contacted have responded, and others responded that there would be a "conflict of interest" in providing reference antisera for tests that their company markets. At least one company has expressed a preliminary interest, pending more information on volume, cost and licensing requirements.

The Reference Antisera Committee has not yet received a response from NVSL answering committee questions about the future availability of avian Mycoplasma antigens and antisera, and the possibility of

checktest samples for Mycoplasma testing. It was indicated earlier in the year that due to financial constraints, NVSL would not be able to accommodate increases services in this area.

Although logistics of producing and distributing reference antisera for specific avian pathogens were not worked out, the Reference Antisera Committee agreed that we should suggest to the board that the AAAP support the production and use of reference antisera panels. It was also proposed that we work in collaboration with the US Animal Health Association and National Poultry Improvement Plan Mycoplasma and Poultry Health committees to address the producer and laboratory concerns about result uniformity and reliability for Mycoplasma serology.

MEMBERSHIP COMMITTEE

Jean Sander, Chair

This is my first year as chairman of the Membership Committee. I extend my thanks to Dr. Mark Goodwin for his guidance and access to the files he has accumulated to date.

The major thrust of the Membership Committee this year has been to increase the recruitment effort of poultry specialists in our neighboring countries; Canada and Latin American.

Due primarily to the efforts of Dr. Mariano Salem, University of Delaware, we have been in contact with Dr. Eduardo Lucio of ANECA, to request a membership list for the purpose of solicitation. A notice was also to be placed, in Spanish, in the ANECA newsletter describing the AAAP and the benefits of membership, encouraging interested parties to join. Dr. Salem also solicited membership applications at this years WPDC where several applications were filed. We thank and commend Dr. Salem for his efforts in membership solicitation.

The Membership Committee no longer receives applications, therefore we do not have the current membership status at this time. I request that the board approve a report on membership status and new applications, be submitted to the Membership Committee to allow evaluation of solicitation efforts.

The Membership Committee will be meeting in Minneapolis this year where we plan to review the membership brochure and formulate our goals for the coming year.

DISEASES OF WILD BIRDS COMMITTEE QUARTERLY WILDLIFE MORTALITY REPORT

The following highlights mortality reported to the National Wildlife Health Research Center (NWHRC) from October-December 1992.

Peracute to acute aspergillosis was identified as the cause of mortality in cackling Canada geese from Sauvie Island, Oregon. Fifty eight birds died out of a population of approximately 2,000. A pile of waste rice hulls and grain were identified as a possible source of the fungus. Aspergillosis was also confirmed in Canada geese from Crex Meadows in Wisconsin. A pile of wheat silage was found to be the source of the fungus.

Anahuac NWR personnel reported waterbird and shorebird mortality on a 1,200 acre private wetland near Sabine Pass, Texas. Texas A&M and NWHRC diagnosed botulism type C from carcasses submitted for evaluation. Most of the mortality occurred within a one week period. Control efforts focused on hazing areas where mortality was the greatest. Cooler weather and rain occurred during the hazing efforts and may have further mitigated the die-off.

Muleshoe NWR in western Texas reported unusual mortality in sandhill cranes on the Refuge in mid-November. Fifty-three birds were found dead within a few days after the cranes arrived on the refuge. The carcasses submitted had lesions of disseminated visceral

coccidiosis, but the lesions were not severe enough to cause the death of the birds. The significance of this parasite in sandhills is difficult to assess, however, it is pathogenic in whooping cranes.

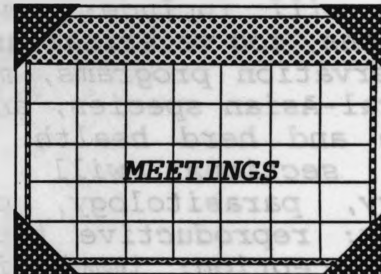
Avian cholera mortality was reported from several areas in the Central Flyway. The first report was from Nebraska at the USDA Meat Animal Research Center's (MARC) Reservoir in Clay County. Populations of 100,000 white-fronted geese and 250,000 snow geese had been in the area about two weeks before mortality was observed in the beginning of November. Mortality increased in mid-November; with poorer weather conditions and increasing populations, it was anticipated that total mortality would escalate. Fortunately, the geese moved out of the area before major disease control measures were undertaken. The Texas Rice Belt was the next area to report mortality in goose populations. Conditions were dry in early fall, and water availability was minimal. However, heavy rain later in the fall created additional habitat and resulted in local dispersal of goose populations. After this dispersal, mortality occurred on over forty sites in the area. Bosque del Apache NWR in New Mexico reported increased mortality in mid-December, although low level mortality had been observed since Thanksgiving. While significant mallard populations have always occurred on the Refuge, this is the first time a substantial part of the mortality at Bosque has occurred in mallards.

Avian cholera mortality was also reported in the Pacific Flyway. Low level mortality among geese was reported from the Sacramento NWT complex. The majority of these geese arrived on the Refuge approximately one week before the mortality began. Goose populations in the Sacramento Valley were large, numbering greater than 500,000. Avian cholera was confirmed in snow and Ross' geese submitted to NWHRC from Sacramento, Sutter and Colusa

NWRs.

Lower Klamath NWR in California reported mortality in mallards, pintails and white-fronted geese. Avian cholera was initially suspected, but large numbers of sick birds were observed. This observation is atypical in avian cholera outbreaks. Collection of fresh carcasses was hindered by a large raptor population (500+) scavenging the dead waterfowl. Subsequently, diagnostic workup of several carcasses confirmed lead poisoning as the cause of mortality instead of avian cholera.

Strychnine toxicosis was diagnosed as the cause of death in crows submitted from Kearney, Nebraska. An estimated 500,000 crows winter in the Kearney area, and it is suspected the birds were illegally poisoned because they were a nuisance.



WVPA CONGRESS - To be held August 16-19 in Sydney, Australia. Plan your trip now to embrace this scientific occasion and take advantage of the opportunities for the vacation of a lifetime. For information contact the congress organizer: Margaret Reid Pty, Ltd, PO Box 341, Neutral Bay NSW 2089, Australia. Phone 612-953-7100, Fax 612-908-1070.

14TH AAV ANNUAL CONFERENCE - To be held in Nashville, TN, August 31 - September 4, 1993. For further information, contact the AAV Conference Office, 1625 S. Birch St, Ste 106, Denver, CO 80222. Phone 303-756-8380. Fax 303-759-8861.

THE 44th NORTH CENTRAL AVIAN DISEASE CONFERENCE CALL FOR PAPERS - The meeting will be held October 3-5, 1993 in Columbus, Ohio. A special topic symposium and a general session will be held. Those wishing to give a paper for the general session should submit a title and paper description by June 30, 1993. Send to Dr. Eva Wallner-Pendleton, Veterinary Science Department, University of Nebraska, Lincoln, NE 68583-0907. Fax 402-472-3094. The 1993 symposium topic will be on avian therapeutics, with several invited speakers presenting talks on extralabel drug use, economics of therapy, producer accountability, and more. For additional information please call Dr. Wallner-Pendleton at 402-472-1434.

THE AMERICAN ASSOCIATION OF ZOO VETERINARIANS' 1993 ANNUAL CONFERENCE - To be held at the Marriott Hotel in St. Louis, Missouri, on October 10-15. Special sessions will include: government regulations, zoo veterinarian's role in conservation programs, medicine of Austral-Asian species, and group medicine and herd health. Other program sections will include pathology, parasitology, clinical pathology; reproductive technology and contraception; immobilization, anesthesia and monitoring; case reports, exotic pets and practice tips, reptiles and amphibians; primates, carnivores and small mammals; avian species; and aquatic animals. Additionally there will be a veterinary and graduate student manuscript competition, workshops and a poster session. Scheduled workshops include: Comprehensive pest control programs, occupational health and safety, endoscopy, ophthalmology, and basic zoo animal medicine. Individuals interested in submitting a manuscript should contact Donald Janssen, DVM, San Diego Zoo, PO Box 551, San Diego, CA 92112. Phone number (619) 557-3933; FAX (619) 557-3959. Deadline for selection of speakers and topics is 20 March 1993. After deadline or for

other conference information contact Wilbur Amand, VMD, AAZV Executive Director, 3400 Girard Ave, Philadelphia, PA 19104-1196; phone (215) 387-9094; Fax (215) 387-8733.

28TH NATIONAL MEETING ON POULTRY HEALTH AND PROCESSING - To be held in Ocean City, MD on October 21-22, 1993. For further information, contact Delmarva Poultry Industry, RD 2, Box 47, Georgetown, DE 19947-9622. Phone 302-856-9037.

97TH ANNUAL MEETING OF THE AAVLD/USAHA - To be held in Las Vegas, NV on October 23-29, 1993.

15TH ANNUAL CONFERENCE OF THE MID-ATLANTIC STATES ASSOCIATION OF AVIAN VETERINARIANS - To be held at Bally's Park Place in Atlantic City, NJ on April 24-26, 1994. Over 20 contact hours of continuing education credit are expected to be available for veterinarians and technicians in diverse avian subjects: behavior, diseases, critical care, practice management, ratites, case studies, pediatrics, etc. Laboratories in basic and advanced techniques are planned. Registration forms will be mailed in February 1994. Contact MASAAV. Memorial Bldg Suite 291, 610 North Main Street, Blacksburg, VA 24060 or call 703-951-2559 for further information.





POSITIONS AVAILABLE

Senior Scientist - Avian Biologics Development - A leader in the animal/poultry health industry has a senior scientist position available in our Biological Development Department located in Berlin, MD. The ideal candidate will have a DVM and/or PhD degree in microbiology, virology, immunology or pathology and prior industry experience in avian biologics development. Primary responsibility involves the leadership of development projects for new and/or improved products and processes including proposed USDA/APHIS regulation, scale-up problem solving and technical assistance for marketing, sales, and technical personnel. For confidential consideration, forward a resume along with salary history to our corporate headquarters at: Sanofi Animal Health, Inc., 7101 College Blvd, Suite 610, Overland Park, KS 66210, Attn: Human Resources.

Avian Technical Services Veterinarian - A leader in the animal/poultry health industry has an avian technical services veterinarian position available. Post-graduate training and/or experience in avian medicine required. The successful candidate will be expected to provide support to our sales and marketing departments, conduct field trials, and interface with academic professionals. The position will be based in Arkansas; extensive travel required. For confidential consideration, forward a resume along with salary history to: Sanofi Animal Health, Inc., 7101 College Blvd., Suite 610, Overland Park, KS 66210, Attn: Director, Human Resources.

Senior Research Associate - Department of Avian and Aquatic Animal Medicine. This is a professional position that will involve developing and carrying out independent and collaborative research programs dealing with infectious disease of ducks. The position is located at the Cornell University Duck Research Laboratory, Eastport, Long Island, New York. The incumbent will be expected to: 1) develop and conduct basic and applied research on problems of economic importance to the commercial duck industry, 2) participate in a program involving development, production and testing of USDA-licensed biologics for use in ducks, 3) serve as a backup for the avian disease diagnostic service and 4) supervise technical support staff. Ability to work as a team member is essential.

Candidates should have a DVM or equivalent degree, with an advanced degree, and have experience in poultry disease diagnosis or research. The incumbent will be a regular member of the staff of the College of Veterinary Medicine at Cornell University and thus enjoy all of the associated rights and privileges. Salary will be commensurate with training and experience. This position carries the attractive features of dealing with a fertile field for species-oriented diseases research with good facilities and support. Applicants should send their curriculum vitae, personal bibliography and names of three persons from whom references may be sought to: Dr. Bruce Calnek, Department of Avian and Aquatic Animal Medicine, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853. Applications will be accepted until August 1, 1993. Cornell University is an equal opportunity, affirmative action employer/educator.

POSITIONS WANTED

Position Wanted - Recently, I have graduated from the University of Guelph with an Avian Pathology Diploma. My PhD and Msc are from Michigan State University (Department of Animal Science in Avian Toxicology and Poultry Breeding, respectively). I have a degree in Veterinary Medicine from overseas. Before entering the graduate program, I worked as a poultry veterinarian for a few years. I am seeking a teaching poultry disease, poultry veterinarian and/or research position in a university, college, or industry. I am sure that my mixed background and experience would support me to perform significantly. For further information or resume, I can be reached at the following address, Fowzy Fathy, 3428 Wells Street, Windsor, Ontario, N9C 1T5, (519) 256-7597. Thank you for your time and consideration.

Position Desired - I am a veterinarian with seven years of general clinical and six years of diagnostic pathology experience. I recently completed a four-year pathology residency at the U.S. Army Research Institute for Infectious Disease, Frederick, MD. My undergraduate training and two years of graduate training at the University of Arkansas, prior to veterinary school, are in poultry science and poultry nutrition respectively. I have a strong family background in the broiler industry and later in commercial egg production, and I am a diplomate of the American College of Veterinary Preventive Medicine.

I feel my broad practical background in clinical medicine, poultry science, pathology, and preventive medicine, allow me to be an asset to an integrated poultry company, poultry biologics producer or research program. Please contact me at the following address for

further information or resume: Dan R. Ragland, 8385 Inspiration Ave, Walkersville, MD 21793; Phone: 301-845-4124; (work) 301-295-1052.

Position Wanted - Technical Services Poultry Veterinarian seeks a position with a poultry company located in USA or Canada. Past Experience includes the following:

- Graduate of OAC, University of Guelph, with a Bachelor of Science degree in Agriculture, majoring in Poultry Science.

- Graduate of OVC, University of Guelph, with a Doctor of Veterinary Medicine.

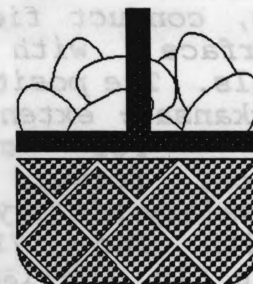
- Has completed 20 years experience in the poultry industry.

- Has provided technical support to sales and marketing personnel, plus research and development in health and nutritional products.

- Has laboratory experience in necropsy, bacteriology, serology, mycoplasma plate testing, ELISA, virology and parasitology.

- Has international experience in South East Asia, North East Asia, South America, Mexico and Canada.

For further information please contact Winston Moffatt at 708-249-1596 or 414-654-7885.



The following are proposed changes in the Constitution and By-Laws that have been presented to the Board of Directors and recommended for approval by the membership. These proposed changes will be discussed at the annual meeting and then voted on by mail ballot.

a. Change in definition of associate member. It is difficult to make a judgement about what is considered a significant contribution to the knowledge in the field of avian diseases. In practice we have been willing to have as associate members individuals working in the poultry field that are interested in being members.

b. Add the new category of student chapter.

c. Add the new category of International Associate Member as discussed at the last board meeting and published in the minutes of the annual meeting.

d. Change in the application procedure. At the present time the application procedure being followed does not conform to the Constitution and By-laws. We are not currently requiring endorsement by two members in good standing. The applications are not being approved by the membership committee but are being processed in the business office.

ARTICLE IV Membership

Section 1. The types of membership in this organization shall be:

- (1) Charter member
- (2) Member
- (3) Life member
- (4) Associate member
- (5) **International associate member**
- (6) Honorary member
- (7) Retired member and Retired associate member
- (8) Student member
- (9) **Student chapter**

Section 2. Qualifications for membership:

- (1) Charter member

(a) Charter members shall have the qualifications of members and shall be those who have had fifteen years experience in avian pathology joined together at the 1957 Annual Meeting of the American Veterinary Medical Association to initiate this association, plus others elected by a two-thirds vote of the original charter membership. These latter must also have fifteen years of experience

in avian pathology and shall be elected within the first year following adoption of the constitution and by-laws.

(2) Member

- (a) Be a permanent resident of one of the five districts (Article V, Section 3, Par. 2), be a graduate of a veterinary college and, if a resident of the U.S.A., be a member of the AVMA.

(3) Life member

- (a) A category of membership to which charter members, members and associate members, upon entering retirement, may be elected following nomination. In order to be considered for life membership, a person must have made significant contributions to the field of avian pathology and to the American Association of Avian Pathologists and shall have been active in the field a minimum of 25 years. Life members shall not be required to pay any dues or assessments.

- (a) **A category of membership to which charter members, members, associate members and *international associate members*, upon entering retirement, may be elected following nomination. In order to be considered for life membership, a person must have made significant contributions to the field of avian pathology and to the American Association of Avian Pathologists and shall have been active in the field a minimum of 25 years. Life members shall not be required to pay any dues or assessments.**

- (b) Retirement is interpreted to mean that the member or associate member has retired from major gainful employment

- (b) **Retirement is interpreted to mean that the member, associate member or *international associate member* has retired from major gainful employment.**

(4) Associate member

- (a) Veterinarians who are U.S. residents but not members of the AVMA and persons without a degree in veterinary medicine who are engaged in some phase of avian diseases and who have made significant contributions to the knowledge in this field.

(4) Associate member

- (a) Veterinarians who are U.S. residents but not members of the AVMA and persons without a degree in veterinary medicine who are engaged in some phase of avian diseases.**

(5) International associate member

- (a) Persons from outside the designated regions who are engaged in some phase of avian diseases. International associate members will be assessed higher dues than other members to cover the higher costs of overseas mailings.**

(6) Honorary member

- (a) Scientists who have made unusually significant contributions to the field of avian pathology. Not more than two honorary members shall be selected in any one year. An honorary member shall not be required to pay any dues or assessments.**

(7) Retired member and retired associate member

- (a) Upon entering retirement, a member or an associate member may become eligible for retired membership. Retirement is interpreted in the manner described under 3(b), life member. Dues for retired members shall be either none or shall be at a reduced rate. This rate shall be set and periodically reviewed by the Governing Board of the Association. "Avian Diseases" would be supplied at membership rate if requested.**

- (a) Upon entering retirement, a member, associate member or *international associate member* may become eligible for retired membership. Retirement is interpreted in the manner described under 3(b), life member. Dues for retired members shall be either none or shall be at a reduced rate. This rate shall be set and periodically reviewed by the Governing Board of the Association. "Avian Diseases" would be supplied at membership rate if requested.**

(8) Student member

- (a) A person without a DVM/VMD/or equivalent degree who (1) is enrolled in a DVM/VMD/or equivalent degree program, or (2) is enrolled in a master's degree or doctoral degree program. Dues shall be the same as for retired members who receive a subscription to "Avian Diseases" and shall include that subscription. Membership shall continue to the end of the calendar year of graduation, during which time they may apply by letter to the AAAP office for conversion to other appropriate membership status.**

(9) **Student chapter**

- (a) **Student chapters of AAAP may be organized at schools or colleges of veterinary medicine under the direction of an advisor who is a current member in good standing of AAAP. AAAP will recognize these chapters and will provide a complimentary copy of the directory and newsletters.**

Section 3. Application for membership:

(1) **An applicant for membership (member, associate member, retired member, retired associate member or student member) shall be submitted to the Secretary-Treasurer and shall be endorsed by two members of the Association.**

(1) **An applicant for membership (member, associate member, international associate member, retired member, retired associate member, retired international associate member or student member) shall be submitted to the Secretary-Treasurer.**

(2) **Applications for membership (member, associate member, retired member, retired associate member or student member) shall be approved by the Membership Committee and accepted by the Secretary-Treasurer representing the Governing Board of the Association.**

(2) **Applications for membership (member, associate member, international associate member, retired member, retired associate member, retired international associate member or student member) shall be approved by the Secretary-Treasurer representing the Governing Board of the Association.**

(3) **Nominations for election as life members and honorary members shall be submitted to the Awards Committee, approved by the Awards Committee and approved by a two-thirds vote of the Governing Board of the Association.**

Section 4. Rights of membership:

(1) **Except as outlined in paragraph 2, membership rights are as follows: The rights to vote and to hold office shall be restricted to charter members, members, life members and retired members. Associate members, international associate members, retired associate members, retired international associate members, honorary members and student members shall have all other rights and privileges of membership.**

(2) **Due to limitations imposed by geographical distances, costs of travel and the added costs and delays in conducting a mail vote, members who reside outside of the four designated North American regional districts will have no voting rights except when present at the annual or called meetings of the Association.**

ARTICLE V

Officers

Section 1. The officers of this organization shall consist of the following: President, President-Elect, Secretary-Treasurer and seven Directors.

Section 2. The election of these officers and their duties shall be as provided in the by-laws.

Section 3. (1) The organization shall be governed by a Board of Directors consisting of the President, President-Elect, Secretary-Treasurer, the Past-President and one Board member from each of the four designated North American regional districts and two members at large. The area Board members will be elected for a four year period and so arranged that the election for only one area will occur each year. One director at large will be elected each year for a two-year period. The regional directors and the directors at large shall not serve consecutive terms. In order to begin the timing of this election of Board members this first year ('59 - '60), the duration of tenure in office will be as follows: Northeastern District, 2 years; Southern District, 3 years; Central District, 4 years and Western District, 1 year.

(2) The specific districts of the Association are as follows:

Northeastern - Maine, New Hampshire, Vermont, New York, New Jersey, Connecticut, Delaware, Rhode Island, Pennsylvania, Maryland, West Virginia, Massachusetts, Washington, D. C. and the following Provinces of Canada: (Quebec, Ontario, Nova Scotia, Prince Edward Island, New Brunswick and Newfoundland).

Southern - Alabama, Arkansas, Georgia, Louisiana, North Carolina, South Carolina, Texas, Virginia, Florida, Mississippi, Oklahoma, Kentucky and Tennessee.

Central - Illinois, Indiana, Iowa, Kansas, Michigan, Missouri, Minnesota, Nebraska, Ohio, South Dakota, Wisconsin, North Dakota and Alaska.

Western - California, Oregon, Utah, Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Washington, Wyoming, Hawaii, Mexico and the following Provinces of Canada: (British Columbia, Alberta, Saskatchewan and Manitoba).

Central and South America - namely those countries south of Mexico, but including the islands of the Caribbean.

International - those countries not in the Americas.

(3) Each district, with the exception of Central and South America and the International district, shall elect its area board member by the following procedure: The Secretary-Treasurer shall solicit nominations by mail from the voting membership in the district. The three names receiving the greatest number of nominations will appear on the official ballot. This official ballot will be distributed to the voting membership in the district for mail vote. The ballots are to be returned to the Secretary-Treasurer for official count. The candidate receiving the greatest number of votes shall be declared elected. Should the office be vacated, the first runner-up in this election shall complete the term. If neither is available the vacancy shall be filled by election by the Board of Directors.

The two board members at large shall be elected at the annual meeting by those assembled. The candidates shall be presented by the Nominating Committee. Each board member-at-large shall be elected for a two year term. Vacancies in the office of board member-at-large shall be filled by election at the next annual meeting by those assembled. The elected member(s)-at-large shall complete the normal term of office of the member he replaces.

DONATIONS TO AAAP FOUNDATION

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Dr. Kenneth Eskelund
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Dr. Reed Rumsey

PATRON (\$5,000 OR MORE)

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Please notify the business office if you have made a contribution to the Foundation and are not on this list.



AAAP COMMITTEE MEETINGS

Friday, 7/16

8:00 am-5:00 pm Board of Director's Meeting Board Room 1

Saturday 7/17

8:00 am-5:00 pm Board of Director's Meeting Board Room 1
 3:00 pm-6:00 pm Disease of Poultry edit cte Directors Row 2
 3:30 pm-4:30 pm Memorial Fund Committee Directors Row 1
 4:00 pm-6:00 pm Program Advisory Committee Carver

Sunday, 7/18

5:00 pm-6:00 pm Reference Antisera Committee Marquette
 5:00 pm-8:00 pm Enteric Diseases Committee Directors Row 4
 6:00 pm-8:00 pm Foodsafety and Diseases of Public Health Significance Directors Row 3
 6:00 pm-7:30 pm Biotechnology Committee LaSalle
 6:30 pm-9:30 pm Avian Histopathology Interest Hennepin

Monday, 7/19

7:30 am-9:30 am Drugs and Biologics Committee Directors Row 4
 8:00 am-9:00 am Georgia MAM Alumni Group Directors Row 1
 8:00 am-9:30 am Avian Diseases Editorial Board Hennepin
 8:00 am-9:30 am AVMA Liaison Committee Marquette
 8:00 am-9:30 am Education Committee Directors Row 2
 12:00-2:00 pm **AAAP AWARDS LUNCHEON** Salon B/C
 5:00 pm-6:00 pm Technical Service Veterinarians Hennepin
 5:30 pm-7:00 pm Toxic, Infectious and Miscellaneous Diseases Cte Board Room 3

Tuesday, 7/20

7:00 am-9:00 am Respiratory Diseases Committee Carver
 7:30 am-8:30 am Skeletal Diseases Committee Board Room 3
 8:00 am-9:00 am History of Avian Med Committee Directors Row 2
 8:30 am-9:30 am Diseases of Wild Birds Cte Directors Row 4
 8:30 am-9:30 am Membership Committee Directors Row 3
 10:30 - noon **AAAP BUSINESS MEETING** Convention Center
 Room 205CD
 5:00 pm-5:30 pm Economics and Quantitative Epidemiology Committee Directors Row 3
 5:30 pm-7:00 pm Pet Bird Diseases Committee Board Room 1
 6:00 pm-8:00 pm Tumor Virus Committee** Lake Harriet Rm**

Wednesday, 7/21 Board of Directors Meeting Board Room 3

7:00-10:00 am

The above functions will be in the **Minneapolis Hilton and Towers**

****This committee meeting will be held in the Hyatt Hotel.**

Program for AAAP Symposium, July 18, Minneapolis, MN,
Convention Center Room 205CD

"Newly Emerging and Re-emerging Avian Diseases; Applied Research and Practical Applications for Diagnosis and Control"

Section 1 on Mycoplasma--Dr. David Mitchell

- 8:30-8:50--"Application of PCR in the Diagnosis of Mycoplasma"
by Dr. Lloyd Lauerma
8:50-9:05--"Mycoplasma Profiling" by Dr Mazhar Khan
9:05-9:25--"An Introduction to Mycoplasma iowae" by Dr. Colin Baxter-Jones
9:25-9:45--"An Overview of the Current Mycoplasma Problem" by Dr. Stan Kleven
9:45-10:00--Panel Discussion

10:00-10:30 BREAK

Section 2 on Factors that Impact Disease Interaction--Dr. Roger Harvey

- 10:30-10:50--"The Interactive Effects of CAA, REO, and IBD Infections"
by Dr. John Rosenberger
10:50-11:10--"The Impact of Management Practices on Poultry Production"
by Dr. Robert Good
11:10-11:30--"Runting, Stunting, Enteritis, and Failure to Thrive"
by Dr. Mark Goodwin
11:30-11:45--"Physiological Basis for Nutritional Modulation of the Immune Response" by Dr. Kirk Klasing
11:45-12:00--Panel Discussion

12:00-1:30 LUNCH

Section 3 on Pathogenesis and Diagnosis of Reproductive Failure in Hens--
Dr. David Swayne

- 1:30-1:50--"Endocrine Regulation of Ovarian Follicle Growth: Implications Towards Understanding Follicle Recruitment and Atresia"
by Dr. Alan Johnson
1:50-2:10--"A Field Perspective of Reproductive Failure in Chickens"
by Dr. Kenton Kreager
2:10-2:30--"Reproductive Nonperformance in Turkey Hens An Industry perspective" by Dr Helen Wojcinski
2:30-2:45--"Diagnosis of Reproductive Failure" by Dr Thomas Brown
2:45-3:00--Panel Discussion

3:00-3:30 BREAK

Section 4 on Rhinotracheitis--Dr. Colin Baxter-Jones

- 3:30-3:50--"Isolation, Characterization, and Serological Relatedness of TRT Viruses from Domestic Poultry" by Dr. Jane K.A. Cook
3:50-4:10--"Pathogenesis and Immunity in Laboratory Challenge Studies with Turkeys and Chickens" by Dr. R.C. Jones
4:10-4:30--"TRT Clinical Disease in Turkeys and Chickens--A Worldwide Perspective" by Dr. Daniel Gaudry
4:30-4:45--"TRT and Swollen Head Syndrome of Chickens: The Current Status of These Diseases in the United States" by Dr. James E. Pearson
4:45-5:00--Panel Discussion

**PRELIMINARY PROGRAM
ORAL PRESENTATIONS
CONVENTION CENTER**

MONDAY

**SESSION 1
ROOM 205CD**

**SESSION 2
ROOM 208CD**

- | | | |
|----------|--|--|
| 9:30 am | Alan L. Johnson
Vasoactive Intestinal Peptide (9VIP)-Induced Differentiation of Cultured Hen Granulosa Cells | Kirk Klasing
Modulation of the Inflammatory and Antibody Response of Chicks by Dietary R-3 Fatty Acids |
| 9:45 am | Jean-Pierre Vaillancourt, et al
Cellulitis in Broiler Chickens | Galestan Ghazikhanian, et al
Effect of Low Available Phosphorus on Turkey Poults - A Case Report |
| 10:00 am | Martine Boulianne, et al
Investigation of the Dark Coloration of Broiler Chicken Carcasses at the Abattoir | James Guy, et al
Decreased Egg Production in Turkey Breeder Hens Experimentally Reproduced by Infection with Alphaviruses |
| 10:15 am | Reynaldo Resurreccion
A Rapid Laboratory Diagnosis of Infectious Bronchitis under Conditions of High Volume Submission and Short Turn-Around Time | Thomas Brown, et al
Serologic Responses of Turkeys, Chickens, and Rheas to Eastern Equine Encephalomyelitis Vaccination |
| 10:30 am | BREAK | BREAK |
| 11:00 am | Mark A. Goodwin
Bacterial Typhlitis in Chickens, Turkeys, Quail, and a Peafowl | H.L. Shivaprasad, et al
Epidemiologic Study of Poultry Enteritis in California Turkey Flocks |
| 11:15 am | Marshall R. Putnam
Response to a Malicious Poisoning of a Market Age Broiler Flock | Chris Hayhow, et al
Enterovirus Enteritis in Turkeys |
| 11:30 am | Robert Norton, et al
Mortality of Turkeys Associated with the Inadvertent Administration of Broiler Starter Feed Containing Salinomycin | Richard Rimler
Partial Purification of Cross-Protection Factor(s) from <u>Pasteurella multocida</u> |
| 11:45 am | Dan Domingo, et al
Salt Toxicosis in Broiler Chicks | Martin Sevoian, et al
The Use of Slow-Release Biodegradable Polymers for Drug, Vaccine and Hormone Biologic Delivery System |

12:00 N

**AWARDS LUNCHEON
MINNEAPOLIS HILTON
SALON B/C**

**AWARDS LUNCHEON
MINNEAPOLIS HILTON
SALON B/C**

MONDAY

SESSION 1

SESSION 2

- 2:00 pm Scott Fitzgerald, et al M. Suresh, et al
Two Birds with Ovotestes in a Effect of Hemorrhagic Enteritis
Small Flock of Cochin Bantams Virus on Lymphocyte
Subpopulations in Turkeys
- 2:15 pm Daniel Shaw, et al Brett Hopkins, et al
Rupture of Yolk Sac Associated Histologic Characterization of
with Early Chick Mortality Concurrent Infections of
Hemorrhagic Enteritis Virus and
Eimeria melagrimitis in Turkeys
- 2:30 pm John Brown, et al Iftikhar Hussain, et al
The Incidence of Anemia is Now Detection of Hemorrhagic
Diminishing Among Clinically Enteritis Virus of Turkeys
Ill Georgia Broilers Using Nucleic Acid
Hybridization
- 2:45 pm Stephen Davis, et al Kirklyn Kerr, et al
Effect of Sarafloxacin on Chronic Fulminating
Mortality Due to E. coli in Cholangiohepatitis Associated
Commercial Broilers with Campylobacter Species in
Mature Laying Chickens
- 3:00 pm **BREAK** **BREAK**
- 3:30 pm Ronald Lippert, et al Craig Riddell
Effect of Sarafloxacin on Hepatitis-splenomegaly in
Mortality Due to E. coli in Leghorn Hens in Western Canada
Commercial Broilers
- 3:45 pm Dennis Senne, et al Barry Harmon, et al
Characterization of NDV Preliminary Characterization of
Isolates from Cormorants Avian Heterophil Antimicrobial
Peptides
- 4:00 pm Daniel King Teresa Morishita, et al
Newcastle Disease Virus The Microbial Succession of the
Isolates from Cormorants and Turkey Poult Jejunum
Turkeys in 1992: Evaluation of
Pathogenicity in Chickens
- 4:15 pm Max Brugh, Jr Thomas Holder
Dose/Response Relationships Cooperative Industry and State
Defined for Intravenous Funding for the Control and
Pathogenicity Tests of Avian Eradication of Catastrophic
Influenza Virus Poultry Disease Outbreaks
- 4:30 pm Shantha Kodihalli, et al Jean Sander, et al
Effect of Avian Influenza Virus Effect of Formaldehyde fogging
Infection on the Phagocytic on Respiratory Tissue and
Function of Systemic and Broiler Productivity
Pulmonary Macrophages

MONDAY

SESSION 1

SESSION 2

4:45 pm Michael Perdue
Consistent Occurrence of Hemagglutinin Variants Among Avian Influenza Virus Isolates of the Hg Subtype Suggests Two Predominant Structural Forms

Seyed Mirsalimi
An Overview of Poultry Industry in Iran

5:00 pm Richard Slemons, et al
Avian Influenza Viruses Demonstrate a Predilection for the Pancreas in Infected Turkeys but not in Infected Chickens

Donna Hill, et al
Hatchery Guidelines: A Practical Approach

5:15 pm Elizabeth Laudert, et al
Effect of Avian Influenza Virus Infection on Growth and Reproduction Parameters in Mallard Ducks

Pedro Villegas, et al
Comparison of the Pathogenicity of Reovirus Strains and Correlation with the Effect of Trypsin

TUESDAY

9:30 am Terence Pertile, et al
Studies on Reovirus-induced Immunosuppression in Chickens

George Anderson, et al
Efficacy of a Cell Free Trivalent Marek's HVT, Infectious Bursal Disease and Quail Pox Vaccine Given by the Wing Web Route of Administration

9:45 am Aly Fadly
Induction of Antibodies to Avian Leukosis and Reticuloendotheliosis Virus Using Defective Retroviral Vectors

Ahmed Ah Mutalib
Influence of Site of Inoculation of Inactivated Vaccines on the Immune Response in Chickens

10:00 am Ching Ching Wu
Diagnosis of Infectious Bursal Disease by Slot-Blot Hybridization, Polymerase Chain Reaction, and Conventional Antigen Detection Methods

John Glisson
Immune Response to Pasteurella multocida Isolates Which Express Antigens of Multiple Serotypes

10:15 am Frederic Hoerr, et al
Application of Monoclonal Antibodies for the Immunohistochemical Diagnosis of Infectious Bursal Disease

Jagdev Sharma, et al
Reduced Viral Immunodepression in Chickens Treated with an Immunomodulator

10:30 am **BUSINESS MEETING**

BUSINESS MEETING

12:30 pm **LUNCH**

LUNCH

TUESDAY

SESSION 1

SESSION 2

- | | | |
|---------|---|---|
| 1:30 pm | David Snyder, et al
A Recombinant Baculovirus Expressing Infectious Bursal Disease Virus Antigens Provides Active and Passive Cross-Protection of Chickens | Richard Julian, et al
The Effects of Hypoxia and Hyperoxia on the Incidence of Spontaneous Turkey Cardiomyopathy (Round Heart Disease) |
| 1:45 pm | Jack Gelb, et al
Epidemiology of an Outbreak of Infectious Bronchitis in Delmarva Chickens: 1990-1993 | Kemal Karaca, et al
The Effect of Acemannan on Chicken Mononuclear Cells |
| 2:00 pm | Martin Smeltzer, et al
Epidemiology of Infectious Bronchitis in Georgia | Robert Droual, et al
Local Reaction and Serological Response in Commercial Layer Chickens Injected Intramuscularly in the Leg with Oil-Adjuvanted <u>Mycoplasma gallisepticum</u> Bacterin |
| 2:15 pm | Lance Christensen, et al
Efficacy of a Delaware Variant Type Bronchitis Vaccine, 072 Strain | Lawrence Arp, et al
Local and Systemic Immune Response to Ocular Immunization in Turkeys |
| 2:30 pm | Roy Montgomery, et al
Modified-Live Infectious Bronchitis Vaccines and their Effects on the Head-Associated Lymphoid Tissue of the Chicken | Girish Sarma, et al
Comparison of the Safety and Efficacy of Conventional vs. <u>In-ovo</u> Administration of HVT + SB-1 Bivalent Marek's Disease Vaccine in Chickens |
| 2:45 pm | Mark Jackwood
Immunogenicity of IBV Glycoproteins Expressed in Baculovirus | Linnea Newman
Live Cholera Vaccination in Broiler Breeders: Field Vaccination Technique and Troubleshooting |
| 3:00 pm | BREAK | BREAK |
| 3:30 pm | Syed Naqi, et al
Significance of Genetic Recombination in the Emergence of IBV Variants | Lucy Lee
Studies of A Marek's Disease Virus Gene Homologous to the Herpes Simplex Virus Gene Encoding Ribonucleotide Reductase |
| 3:45 pm | Michael Ruff
Need for Sensitivity Testing of Medication Against Avian Coccidia | Nikki Kinney, et al
Safety and Efficacy of a True Rispens CV1988 Marek's Disease Vaccine |
| 4:00 pm | Mac Terzich, et al
The Safety, Immunogenicity and Efficacy of the Live 6/85 Strain of <u>Mycoplasma gallisepticum</u> (MG) Vaccine | Y. Saif, et al
A Recombinant HVT Containing Genes From ILTV Protects Chickens Against Challenge by ILTV |

TUESDAY

SESSION 1

SESSION 2

- 4:15 pm Stan Kleven, et al
Practical Experiences with
Commercial PCR-Based DNA Probes
for Mycoplasma gallisepticum
- 4:30 pm Maricarmen Garcia, et al
Study of Mycoplasma
gallisepticum Surface Antigens
Using Monoclonal Antibodies
- 4:45 pm Henry Fan, et al
Differentiation of Mycoplasma
gallisepticum Strains by using
Polymerase Chain Reaction
- 5:00 pm Marcus Head, et al
Serological Response of
Mycoplasma iowae in Turkeys
- 5:15 pm Patricia Wakenell, et al
Pathologic Changes in Chicken
Embryos Caused by Mycoplasma
iners Strain OZ
- Stephanie Cook
A Novel HVT Recombinant
Vaccine: HVT Containing Genes
for NDV and MDV Antigens
Protects Day-Old Birds from
Challenge
- Olufemi Fatunmbi, et al
Differentiation of Avian Pox
Viruses by Restriction
Endonuclease Analysis
- Shigeto Yoshida, et al
Expression of the gBh (gBh-2)
of Marek's Disease Virus
Serotype-2 in Cells Infected
with Recombinant Fowlpox Virus
- James Davis, et al
Isolation of a Virus
Antigenically Related to Avian
Nephritis Virus from Brains of
Broiler Chicks Exhibiting a
Central Nervous System Disorder
- Jane Cook
TRT Update

WEDNESDAY

- 9:30 am R.C. Jones
TRT Update
- 9:45 David Swayne, et al
Comparison of the Ability of
Orally Inoculated Avian-, Pig-
and Rat-Origin Spirochetes to
Produce Enteric Disease in 1-
day-old Chickens
- 10:00 am David Rives, et al
Staphylococcosis in Broiler
Breeders Resulting from
Contaminated Live Fowl Cholera
and Fowl Pox/Avian
Encephalomyelitis vaccine
- 10:15 am Alex Bermudez, et al
Determination of the No Effect
Level of Fumonisin B1
Containing Fusarium Moniliforme
Culture Material Fed to
Chickens and Turkeys
- Jubril Olu Hassan, et al
Effects of S. typhimurium
vaccine for protection of
chicks against challenge with
S. enteritidis
- Mazhar Khan, et al
Detection of Salmonella spp.
and Salmonella enteritidis by
DNA Probe and Polymerase Chain
Reaction
- Richard Gast, et al
Evaluation of the Efficacy of
Oil-Emulsion Bacterins for
Reducing Fecal Shedding of
Salmonella enteritidis by
Laying Hens
- Peter Holt
Effect of Induced Molting on
the Transmission of Salmonella
enteritidis in White Leghorn
Hens

WEDNESDAY**SESSION 1****SESSION 2**

10:30 am

BREAK**BREAK**

11:00 am

Don Reynolds, et al
The Effects of Fumonisin Toxin
on Lymphocyte Blastogenesis

David Henzler, et al
The Frequency and
Characterization of Salmonella
enteritidis Positive Eggs from
S. enteritidis Contaminated
Environments

11:15 am

H.L. Shivaprasad, et al
Summary of Diagnostic Findings
in Ostriches, 1990-1992

Linda Keller, et al
Characterization of Salmonella
enteritidis Antigens Reactive
with Specific Monoclonal
Antibodies

11:30 am

Steve Breeding
Ostrich Production and Medicine

Lois Bichler, et al
The Infection of Egg-Laying
Hens with Salmonella
enteritidis by Oral Inoculation

11:45 am

Daniel Gaudry
Experiences With Very Virulent
IBDV

Roberta Morales, et al
Economic Costs of Salmonella
enteritidis Control in Laying
Flocks

12:00 n

Daniel Gaudry
Experiences with Very Virulent
IBDV

Sherrill Davison, et al
Field Trials with S.
enteritidis Bacterins

POSTER PRESENTATIONS**Room 206, 207 AB**

1. Cheong Up Choi, et al
Revival of Viral Infectivity of Type II Avian Adenovirus After Genomic DNA Cloning.
2. Mark A. Dekich, et al
Multisystemic Adenovirus Infection in Broiler Chicks with Hypoglycemia and Spiking Mortality.
3. Valthiananthan Sivanandan, et al
Comparison of DAS-ELISA and Virus Isolation Methods for Rapid Diagnosis of Avian Influenza Virus Infection.
4. Karel A. Schat, et al
Sequence Analysis of the Non Cell Culture-Adapted CIA-1 Strain of Chicken Infectious Anemia Virus.
5. In P. Mo, et al
Occurrence of Infectious Bursal Disease with High Mortality in Korea.
6. Gloria E. Avellaneda, et al
In vivo Evaluation of IBV Strains from the USA.
7. Charles A. Dangler, et al
Degenerate Primer-directed, Reverse Transcription-Polymerase Chain Reactions for the Avian Infectious Bronchitis Virus Spike Protein Gene.

8. Delin Ren, et al
Identification of a Marek's Disease Virus Gene Homologous to ICP27 of Herpes Simplex Virus.
9. J. Lloyd Spencer, et al
Type and Distribution of Lesions Induced by Very Virulent Marek's Disease Viruses.
10. Dexin Sui, et al
Marek's Disease Virus Gene Encoding Glycoprotein gH.
11. Richard L. Witter
Comparison of Serotype 1 Marek's Disease Vaccine Strains R2/23 and CVI988/Rispens.
12. Keyvan Nazerian, et al
Protection of Chickens Against Reticuloendotheliosis Virus with the Use of a Recombinant Vaccine.
13. Mona M. Aly, et al
Diagnosis of Reticuloendotheliosis Virus Infection Using Polymerase Chain Reaction.
14. Betty W. Seawell, et al
Efficacy of an Inactivated Infectious Coryza Bacterin Against Challenge with Recent Field Isolates of Haemophilus Paragallinarum.
15. Lisa K. Nolan, et al
Characterization of an Avirulent Mutant of a Virulent Avian Escherichia coli Isolate.
16. Antonio J. Piantino Ferreira, et al
Cytotoxic Effects of Chicken Pathogenic Escherichia coli Strains.
17. Antonio J. Piantino Ferreira, et al
Mannose-Resistant Hemagglutinin (MHRA) Produced by Chicken Pathogenic Escherichia coli Strains.
18. Marion J. Morgan, et al
Fowl Cholera in Arkansas Turkeys: A Three Year Survey.
19. K. Paige Carmichael, et al
The Role of Pasteurella multocida lipopolysaccharide in the Pathogenesis of Acute Avian Pasteurellosis.
20. W.D. Waltman, et al
Fowl Cholera Vaccination Programs and Subsequent Outbreaks.
21. Brett A. Hopkins, et al
Selected Lesions of Experimental Fowl Cholera in Turkeys.
22. H. John Barnes, et al
Green Liver Discoloration and Osteomyelitis in Turkeys at Processing.
23. Geraldine R. Bayyari, et al
An Association Between Turkey Green-liver/Osteomyelitis Complex and Actinomycosis-like Pathology.

24. James R. Andreasen, Jr., et al
Heterophil Chemotactic Function During Acute and Chronic Stages of Staphylococcal Tenosynovitis and Osteomyelitis in Chickens.
25. Kenneth M. Lam
A Cytotoxicity Test for the Detection of Campylobacter jejuni Toxin.
26. Michael F. Slavik, et al
A Rinse Culture-PCR Method for Detection of C. jejuni Attached to Chicken Carcasses.
27. Richard J. Meinersmann
Clearance and Antibody Response to Campylobacter jejuni by Chickens.
28. Mark A. Goodwin, et al
Case Illustrations: Intestinal group D Streptococcus Pyogranulomas in a Chicken, and Attaching Enteric Coccoid Bacteria in Turkey Poults with Diarrhea.
29. David J. Caldwell, et al
Scalding Conditions During Processing Alters the Ability of Radiolabeled Salmonellae to Adhere to Broiler Skin Post-Chill.
30. Edward T. Mallinson, et al
Direct Rapid Quantification of Salmonella from Carcasses and Environmental Specimens.
31. W.D. Waltman, et al
Isolation of Salmonella: A Nationwide Survey.
32. Mark A. Wilson, et al
Evaluation of Salmonella pullorum and Salmonella gallinarum Isolates by DNA Fingerprint Profile.
33. Billy Hargis, et al
A Rapid in vitro Radioligand Bioassay for the Evaluation of Compounds Interfering with Salmonella enteritidis Adherence of Processed Broiler Skin.
34. Samuel D. Charles, et al
Identification of Outer Membrane Proteins Specific for Salmonella enteritidis (SE).
35. Michael H. Kogut, et al
Pathogenic Changes in Granulocytopenic Chickens Infected with Salmonella enteritidis.
36. John G. Manning, et al
Antibiotic Abuse Increases the Risk of Resistant Salmonella enteritidis Infection in Poultry.
37. Kakambi V. Nagaraja, et al
Evaluation of Adjuvanted Subunit Protein Vaccines Against Salmonella enteritidis Infection.
38. A. Singh Dhillon, et al
The Use of Non Radioactive Probe to Identify Differences in Salmonella enteritidis Isolates of Poultry and Human Origin.
39. John C. Lawrence, et al
ELISA for the Detection of Antibody to Salmonella enteritidis.

40. Jean G. Petter
In Vitro Growth Characteristics of Salmonella enteritidis.
41. Poosala Suresh, et al
Characterization of Isotype and Source of Antibodies to B. avium Infection in Turkeys.
42. Stephen M. McCarter, et al
A Serological Survey of Antibody Response to Selected Pathogens in Young Turkeys in Georgia.
43. Martin A. Smeltzer, et al
Clinical and Pathological Findings in Young Georgia Chickens with Swollen Heads.
44. Teresa Sperry Tucker, et al
Comparison of Single and Double Immunoenzyme Staining Techniques for use with Computer Assisted Image Analysis.
45. Carlton E. Dean, et al
A Novel Peptide of Humoral Immune System Origin Inhibits Phorbol-Induced DNA Synthesis by Neonatal Chick Bursal Lymphocytes.
46. Daniel Weinstock, et al
Delayed Type Hypersensitivity as a Measure of Cell-Mediated Immunocompetence in Chickens.
47. Lance J. Christensen, et al
Immunogenicity of a Fowlpox/Bursal Disease Viral Recombinant.
48. Pawan K. Agrawal, et al
Cell-Mediated Immune Response of the Gut-Associated Lymphoid Tissue (GALT) in Poultry.
49. Steve W. Breeding, et al
The Effects of Protein Restriction During the Brooding Phase on the Incidence of Spontaneous Turkey Cardiomyopathy.
50. T. Foutz, et al
Evaluation of Angular and Rotation Defects of the Leg in Broilers.
51. Joe N. Beasley, et al
A Histologic Study of Focal Hepatic Lesions in Turkeys.
52. Nikki Kinney, et al
Colonization with a Live Mycoplasma gallisepticum, Strain TS-11.
53. Alan R. Sharpton, et al
The Influence of Antibiotics, Sampling Site, and Time on the Polymerase Chain Reaction for the Diagnosis of Mycoplasma synoviae.
54. Amer N. Silim, et al
Analysis of Conformation-Dependent Mycoplasmal Antigens by a Radioimmunoprecipitation Assay using Monoclonal and Polyclonal Antibodies.
55. Lloyd H. Lauerman, et al
Identification of Avian Mycoplasmas by Restriction Enzyme Analysis of Two-Step Polymerase Chain Reaction Products.

56. Thomas E. Toth, et al
The Effect of LaSota Newcastle Disease Virus on the Cellular Response in the Respiratory System of Chickens to Escherichia coli Aerosol.
57. James F. Davis, et al
Selected Plasma Chemistry Values of Broiler Chickens Experimentally Infected with Three Enteroviruses and a Reovirus.
58. Joan S. Jeffrey, et al
Zygomycotic Ventriculitis Associated With Mortality in Young Ostriches.
59. George N. Rowland, et al
Experimental Ricketts in Ratites: Gross, Microscopic and Radiographic Lesions.
60. Lisa A. Newberry, et al
The Titration of Ten Commercial Avian Reovirus Vaccines using a Microtiter Indirect Immunofluorescent Antibody Technique and Egg Embryo Inoculation.
61. Mark A. Goodwin, et al
Case Illustrations: Toxoplasma gondii Peripheral Neuritis in Chickens. Fatal Cryptosporidium Bronchopneumonia in a Wood Duck (Aix sponsa), Herpes Virus-Associated Cloacal Papilloma in a Conure (Aratinga canicularis).
62. Kenneth C. Powell, et al
Tumor Necrosis Factor-alpha as a Mediator of the Pathogenesis of Avian Coccidiosis.
63. Seyed M. Mirsalimi, et al
Possible Mechanisms of Ascites Production by Sodium Bicarbonate.
64. George L. Cooper
Cochlisoma anatis As A Cause of Catarrhal Enteritis in Turkeys.
65. Jean-Pierre Vaillancourt, et al
Post-Artificial Insemination Mortality in Hen Turkeys.
66. Thomas E. Toth, et al
Humoral Immune Response of Mice to Brucella abortus Proteins Expressed by Vaccinia Virus Recombinants.
67. Brad L. Day, et al
The Ring-Necked Pheasant as a Biomonitor: the Immunologic Effects of Malathion.
68. Robert Droual, et al
Retrospective Study of Necrotic Enteritis Cases in Commercial Turkeys in the Central Valley of California.
69. Lance J. Christensen, et al
Immunogenicity of a Fowlpox/Newcastle Disease Viral Recombinant.
70. Ching Ching Wu, et al
A Recombinant HVT Vaccine Containing Multiple Genes from MDV Provides Enhanced Protection to Marek's Challenge.
71. Adrian Mockett
Experiences with the Research and Development of TRT Vaccines.

Commercially available Avian Diagnostic Reagents

	<u>Reagent</u>	<u>Source</u>	<u>Licensed</u>	<u>Comments</u>
Avian adenovirus				
Group I	Antisera Antigen/virus Virus	SPAFAS SPAFAS ATCC		Group I avian adeno: Type 1 (CELO) through type 10 available.
Group II				See Hemorrhagic enteritis/Marble Spleen
Group III (Duck adenovirus)	Virus Antigen	ATCC SPAFAS		Group III avian adeno. Cross-reacts with Avian adeno. 127 (egg drop syndrome) in HI assays.
(Avian adenovirus 127/Eggdrop)	Antigen Antisera	NVSL NVSL		HA antigen
Avian Encephalomyelitis	ELISA kit ELISA kit Antisera Antigen/virus Virus Virus	IDEXX KPL SPAFAS SPAFAS ATCC NVSL	yes yes	antibody detection antibody detection
Avian Influenza	Antisera Antigen/virus Virus Antigen	SPAFAS SPAFAS ATCC NVSL		Type A virus subtypes available Type A. For AGID, order with "Enhancement antisera"
Avian Leukosis	ELISA kit ELISA kit ELISA kit Antisera Virus Virus/antigen	IDEXX IDEXX KPL SPAFAS ATCC SPAFAS	yes yes yes	antibody detection antigen detection antigen detection

	<u>Reagent</u>	<u>Source</u>	<u>Licensed</u>	<u>Comments</u>
Avian Reovirus (viral arthritis)	ELISA kit	IDEXX	yes	antibody detection
	ELISA kit	KPL	yes	antibody detection
	Antisera	SPAFAS		
	Antigen/virus	SPAFAS		
	Virus	ATCC		Chicken, Turkey
	Virus	NVSL		Fahey-Crawley strain
Bordetella avium	MAT antigen	Ohio State Univ.		Dr. M. Saif
	Plate antigen	Univ. Minn.		Dr. Nagaraja
	Antisera	Univ. Minn.		Dr. Nagaraja
	ELISA kit	KPL	test phase	antibody detection
Chlamydia psittaci	ELISA	Kodak	not licensed for veterinary use	antigen detection
	ELISA	Abbott	"	antigen detection
	ELISA	API Labs	"	antigen detection
	ELISA	Pharmacia	"	antigen detection
	LAT antigen	TVMDL, College Station		antibody detection Dr. James Grimes
	CF antigen	NVSL		
	FA-conjugate	NVSL		
	Antisera	NVSL		
	Agent	ATCC		Avian, Mammalian
Agent	NVSL		Avian	
Duck enteritis virus	Virus	ATCC		Requires USDA permit
	Virus	NVSL		Vaccine strain
	FA-conjugate	NVSL		
	Antisera	NVSL		
Duck hepatitis virus	Virus	ATCC		
Fowl pox	Antisera	SPAFAS		
	Antigen/virus	SPAFAS		
	Virus	ATCC		
Goose hepatitis	Virus	ATCC		Requires USDA permit.
Hemorrhagic enteritis (Marble Spleen disease)	Antisera	SPAFAS		
	Antisera	Univ. Minn.		Dr. Nagaraja
	Antigen/virus	SPAFAS		
	Virus	ATCC		
	ELISA kit	KPL	test phase	antibody detection

	<u>Reagent</u>	<u>Source</u>	<u>Licensed</u>	<u>Comments</u>
Infectious bronchitis	ELISA kit	IDEXX	yes	antibody detection
	ELISA kit	KPL	yes	antibody detection
	Antisera	SPAFAS		
	Antisera	NVSL		
	Antigen/virus	SPAFAS		Mass, Conn, Ark99, JMK
	Virus	ATCC		Mass, Conn, Ark99
	Virus	NVSL		Mass Beaudette strain
Infectious bursal disease	ELISA kit	IDEXX	yes	antibody detection
	ELISA kit	KPL	yes	antibody detection
	Antisera	SPAFAS		
	Antisera	NVSL		
	Antigen	NVSL		AGID antigen
	Antigen/virus	SPAFAS		
	Virus	NVSL		
	Virus	ATCC		D78, S40747 patent strains available
Infectious Laryngotracheitis	ELISA kit	KPL	yes	antibody detection
	Antisera	SPAFAS		
	Antigen/virus	SPAFAS		
	Virus	ATCC		
	Virus	NVSL		
Marek's Disease	Antisera	SPAFAS		
	Antigen/virus	SPAFAS		
	Virus	ATCC		SB-1, RB-1, JM strains (not stored in liquid nitrogen)
Mycoplasma gallisepticum	Plate antigen	Intervet	yes	antibody detection
	Plate antigen	Univ. Minn.		antibody detection
	ELISA kit	IDEXX	yes	antibody detection
	ELISA kit	KPL	yes	antibody detection (chicken & turkey)
	DNA probe kit	IDEXX	yes	antigen detection
	Antisera	SPAFAS		Chicken sera
	Antisera	NVSL		Turkey, chicken sera
	HA antigen	Univ. Minn.		Dr. Nagaraja
	HA antigen	NVSL		
	HA antigen	SPAFAS		
MG/MS	ELISA kit	IDEXX	yes	antibody detection
Mycoplasma meleagridis	Plate antigen	Intervet	yes	antibody detection
	Plate antigen	Univ. Minn.		Dr. Nagaraja
	ELISA kit	KPL	yes	antibody detection
	Antisera	NVSL		Turkey sera
	HA antigen	NVSL		
	HA antigen	Univ. Minn.		Dr. Nagaraja

	<u>Reagent</u>	<u>Source</u>	<u>Licensed</u>	<u>Comments</u>
Mycoplasma synoviae	ELISA kit	KPL	yes	antibody detection
	Plate antigen	Intervet	yes	antibody detection
	Plate antigen	Solvay	yes	antibody detection
	Antisera	NVSL		Chicken sera
	Antisera	SPAFAS		Chicken sera
	HA antigen	Univ. Minn.		Dr. Nagaraja
	HA antigen	NVSL		
	HA antigen	SPAFAS		
	DNA probe kit	IDEXX	test phase	antigen detection
Newcastle Disease (Paramyxovirus Type 1)	ELISA kit	IDEXX	yes	antibody detection
	ELISA kit	KPL	yes	Antibody detection (Chicken and turkey)
	Antisera	NVSL		
	Antisera	SPAFAS		
	Antigen/virus	SPAFAS		
	Virus	ATCC		some strains require USDA permit.
	Virus	NVSL		LaSota, no permit required.
Paramyxovirus Type 2 (Yucaipa)	Virus	ATCC		
	Virus	NVSL		
	HA antigen	NVSL		
	HA antigen/virus	SPAFAS		
	Antisera	SPAFAS		
	Antisera	NVSL		
Paramyxovirus Type 3	Virus	NVSL		
	HA antigen	NVSL		
	HA antigen/virus	SPAFAS		
	Antisera	SPAFAS		
	Antisera	NVSL		for HA/HI assay
Pasteurella multocida (fowl cholera)	ELISA kit	IDEXX	yes	antibody detection
	ELISA kit	KPL	test phase	antibody detection
	Organism	NVSL		Type 1,3-16, lyophilized Type A-Type E, lyophilized
	Antisera set	NVSL		Types 1,3,4,5
	Antisera	NVSL		Type 1,3-16, lyophilized
Psittacine herpesvirus	FA-conjugate	NVSL		
	Antisera	NVSL		
	Virus	NVSL		
Quail bronchitis virus	Virus	NVSL		see Avian Adeno, Group I
Reticuloendotheliosis	ELISA kit	IDEXX	yes	antibody detection
	Antisera	SPAFAS		
	Antigen/virus	SPAFAS		
	Virus	ATCC		

	<u>Reagent</u>	<u>Source</u>	<u>Licensed</u>	<u>Comments</u>
Salmonella arizona	Plate antigen	Univ. Minn.		Dr. Nagaraja
	MAT antigen	Univ. Minn.		Dr. Nagaraja
	Tube aggl. antigen	Univ. Minn.		Dr. Nagaraja
Salmonella enteritidis	ELISA kit	International Immuno-Diagnostics		antibody detection
	ELISA kit	IDEXX	test phase	antibody detection
	Tube aggl. antigen	NVSL		
Salmonella pullorum	Tube aggl. antigen	Immunogenetics/ Vineland Labs	yes	antibody detection
	Tube aggl. antigen	Univ. Minn.		Dr. Nagaraja
	Plate antigen	Solvay	yes	antibody detection
	Plate antigen	Univ. Minn.		
	MAT antigen	Univ. Minn.		
	Microtest antigen	NVSL		
	Antisera	NVSL		High, low, neg. titer provided with antigen
Salmonella typhimurium	Tube aggl. antigen	Univ. Minn.		Dr. Nagaraja
	Plate antigen	Univ. Minn.		
	MAT antigen	Univ. Minn.		
	Antisera	Univ. Minn.		provided with antigen
Salmonella pullorum/gallinarum	plate aggl	Solvay Labs	yes	Polyvalent antigen
	plate aggl	Immunogenetics/ Vineland Labs	yes	Polyvalent antigen
	MAT	" "	yes	
Turkey enteritis (Bluecomb)	Virus	ATCC		
Turkey herpesvirus	Virus	ATCC		see Marek's disease
Turkey rhinotracheitis	ELISA kit	IDEXX		European market only.

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Plainview, NY 11803-2469

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100 Kings Highway Suite 2500
Rochester, NY 14650

IDEXX Laboratories, Inc.
One IDEXX Drive
Westbrook, Maine 04092

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2285 East Landis Avenue
Vineland, NJ 08360

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804 Juno Lane
Foster City, CA 94404

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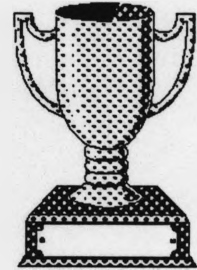
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AAAP AWARDS LUNCHEON

Mark your calendar and make your reservations for the AAAP Awards Luncheon to be held in Minneapolis, Minnesota on Monday, July 19, 1993 from 12-2 pm in the Minneapolis Hilton Salon B/C.



Recipients of the following awards will be recognized during the luncheon: The P.P. Levine Award, Upjohn Achievement Award, Special Service Award, New Investigator Award, Reed Rumsey Student Awards and the C.A. Bottorff Award.

Because of health problems of some members and guests, there will be no smoking in the luncheon area.

AAAP AWARDS LUNCHEON

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Make check payable to AAAP and return along with this form, by **JUNE 18, 1993** to:

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