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# AAVP Newsletter

American Association of Veterinary Parasitologists

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October, 1999

Volume 21, Number 3

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## From the President

### Dear AAVP Member:

I would like to congratulate Dr. Lou Gasbarre for the excellent leadership that he gave through the 1998-1999 period and to congratulate Dr. Tom Kennedy for an excellent program at the 44<sup>th</sup> meeting of AAVP in New Orleans. As we look forward to the 45<sup>th</sup> meeting in Salt Lake City, we hope to continue the scientific, communication, outreach, and financial successes of our predecessors. The majority of the responsibility will lie with Dr. Anne Zajac as the current Program Chairperson.

The coming year promises several challenges to bring our communication systems into the 21<sup>st</sup> century. The Publications and the *Ad hoc* Internet Committees are charged with enhancing our ability to communicate rapidly among members, as well as to create a web site that will be both attractive and highly useable. Many thanks to the pioneering work of Dr. Bert Stromberg on the List Server and Dr. Charlie Courtney on the web site. By next meeting we intend to have a professionally maintained web site that is hot linked to corporate sponsors.

Two other areas, which I perceive as important contributions for 1999-2000 are historical publications and long term planning. Dr. Rafael Roncalli is putting together information on pioneering women of veterinary parasitology. Long term planning is being addressed by the Past President's Committee to define long term goals and prioritize our financial resources to reach these goals. Dr. Gasbarre will be chairing this committee, and I am certain we will have some lively discussion from the recommendations that will be forthcoming.

Don't forget the AAVP Symposium at the NAVC on Sunday, January 16 for those going to Orlando (thanks to Dr. Jorge Guerrero). Look forward to seeing you all in Salt Lake City in July!  
*Submitted by Robert Rew, President AAVP.*

## 1999 AAVP Meeting Report

### Report of the 44<sup>th</sup> Annual Meeting of the American Association of Veterinary Parasitologists, New Orleans, LA 10-13 July, 1999

The annual meeting of the American Association of Veterinary Parasitologists was held in New Orleans, LA July 10-13, 1999 at the Inter-Continental Hotel. Over 250 members and guests were in attendance. Following a board meeting Saturday morning, Jorge Guerrero chaired the first Plenary session entitled "Modulation of the Immune

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Response by Parasites". Dr. Jennifer Conlon of Merck led off the session with a background of the immune response to vaccination that included the use of new adjuvants, theories on antigen presentation to the host, and new vaccine technologies such as DNA vaccines. Steve Wikel, Oklahoma State University explained the effects that arthropods have on the host immune response as a protective mechanism for their own survival. Recent work highlighted a protein cloned from tick saliva that is immunosuppressive to the host which, if targeted correctly by the host, may hold promise for stimulating protection to ticks by the host. Joe Urban, USDA-Beltsville, described the induction of immunopathology and autoimmunity that may result from improper modulation of the immune response. Immunization for bacteria and viruses polarizes the immune response due to stimulation of type 1 or type 2 cytokine responses. Recent advances in understanding receptor signaling and the role of cell surface molecules in regulating T-cell populations may help adjust the immune response to reduce immunopathology.

The opening session was followed by several papers on emerging controls for parasites of companion animals, including feline heartworm and fleas, and a session on new technologies in the detection of internal parasites in small ruminants. Sunday sessions included an entire morning of exposure to new laboratory techniques for emerging protozoans, and a very spirited session on comparisons of various treatment programs for bovine internal and external parasitisms. Bayer Animal Health sponsored a delightful social event for the evening. Sunday afternoon featured invited papers on the theme of Vaccine Development and Host-Parasite Relations: "Who will win the Molecular Arms Race?" In a very provocative lead-off piece, Huw Hughes of Intervet explored "Parasite Vaccines: Is there Really Gold at the End of the Rainbow?" as a primer for the various unsuccessful approaches to vaccine development to date, and the challenges to vaccination provided by the lack of knowledge about the intricate life cycles of parasites. Manuel Campos of Pfizer, in a talk entitled "Immune Memory-Principles and Practice", described immune memory and the

association between duration of immunity and the duration of protection as it applies to parasites. Part of the presentation described the differences between inducing immunity to parasites and the lack of protection from these immunizations compared to other classical vaccination targets. In describing some of the recent knowledge of the cellular and humoral responses in cattle and mice, Mark Estes of the University of Missouri presented "TH1/TH2 Responses and Control of Humoral Immunity-Mus is not Bos", which explored the contributions of co-stimulatory molecules and the awareness that models do not always predict the differences encountered in other species. Recent work in his lab has described several key features of T-cell function along with the translation to the quality and quantity of the immune response. Lou Gasbarre, USDA-Beltsville, pulled all of these talks together with the perspective "Immunity to Parasites-The Journey from Mice to Cattle" and cautioned about direct extrapolation of results from models to the agriculturally important species. As an example, *Ostertagia* induces an excellent response by IL-4, which from model work is predictive of protection. However, this response is not protective in cattle, as *Ostertagia* can evade this response. In summary, although parasitology has come a long way in understanding the immune response to parasites, we are a long way from inducing immunity under man's direction.

Sunday afternoon continued with a seminar on the development of efficacy and safety data for the novel molecule selamectin. Pfizer Animal Health hosted a river cruise for all attendees Sunday evening. Monday morning started with a series on the emerging protozoal diseases of cattle, to include *Cryptosporidium* and *Neospora*, as well as the results of several prevalence studies of companion animal parasites in the US and studies on cattle nematology, including an interesting piece on the restoration of degraded cropland by grazing and recent advances in equine parasitology. Monday afternoon's scientific sessions included descriptions of advances in swine parasitology, a survey of *Echinococcus* in

China, control of Varroa mites in honey bees, and a presentation on attempts to harmonize anthelmintic guidelines between Europe, Japan and the US. On Tuesday morning the President's Symposium was held which was a shared session with the American Veterinary Medical Association that highlighted Equine parasitology (current problems and potential solutions). Tom Klei of Louisiana State University described the potential mechanisms associated with the pathogenesis of acute larval cyathostomiasis and Craig Reinemeyer of East Tennessee Clinical Research explored methods to prevent the transmission of small strongyles. Shifting gears a bit, John Dame of the University of Florida gave the most recent information on protozoal myeloencephalitis in horses, now known to be caused by *Sarcocystis neurona*, a parasite of opossums. Sid Ewing, Oklahoma State University, described ehrlichiosis in horses and a related disease in humans, as well as current approaches to treatment. The meeting featured 118 scientific presentations, two social events, and chances to meet new faces and enjoy old friends. *Respectfully submitted, Tom Kennedy, Vice President and Program Chair.*

### **From the Secretary/Treasurer**

#### **From the Secretary Treasurer**

The 44<sup>th</sup> annual AAVP meeting was held 10-13 July 1999 at the InterContinental Hotel, New Orleans, LA. The meeting attendance was up this year with around 250 members and guests including several of our international members who reside in Argentina, Brazil, Australia, Denmark, and Germany. Dr. Tom Kennedy, as Program Chair, should be commended for organizing the scientific program, which resulted in concurrent well run and organized sessions including several different symposia. I won't steal any of Tom's thunder and would ask members to refer to his more detailed meeting summary printed separately in this Newsletter.

I would like to thank all of our Corporate Event Sponsors, Corporate Sponsors and Meeting Sponsors. Support at each of these levels has been

instrumental in keeping our Association solvent and has allowed us to develop and implement a number of awards, have excellent meetings and keep our meeting registration fees at a reasonable rate. This year Bayer Animal Health and Pfizer Animal Health, as Corporate Event Sponsors, each hosted an evening reception during the meeting. These receptions are greatly appreciated by the membership and I hope that we can continue to have this type of annual support. Also, Fort Dodge Animal Health helped to support a portion of the costs for our coffee breaks. Merial sponsored a symposium on "Parasites as Modulators of the Immune System" for the second consecutive year. This will be an ongoing Symposium series sponsored by Merial. Speakers were identified by Merial who are not routine participants of AAVP. Hopefully, this will benefit the speakers by allowing them to learn more about our organization and the AAVP members by exposing them to cutting edge scientific research by scientists from a variety of disciplines.

Enclosed in the newsletter is a form for submission of dues for 2000. The 2000 dues year runs from September 1, 1999 to August 31, 2000. The AAVP membership dues are still a great bargain, \$20 annually for regular members and \$10 for students. Please call or email me if you have any questions about your dues status. Also, in the Newsletter is a new members application form. If you have students or colleagues who would be interested in joining AAVP, please pass along a copy of this form to them. Look at the mailing address on the envelope that contained your Newsletter and please let me know of any changes in your mailing address including changes to your telephone, Fax or Email. Also, please update your records for contacting the secretary-treasurer. Tom Kennedy continues to receive a few pieces of mail, which must be forwarded on to me. Dues and all correspondence to the secretary-treasurer should be addressed to: Dr. Daniel E. Snyder c/o Elanco Animal Health, Mail drop GL18, PO Box 708, Greenfield, IN 46140, phone: 317/277-4439, fax: 317/277-4532, email: snyder\_

daniel\_e@Lilly.com. Submitted by Dan Snyder  
Secretary-Treasurer AAVP.

## News in Brief

### CIC WISE Travel Grants

With funding from the National Science Foundation, the Committee on Institutional Cooperation (CIC) and Women in Science and Engineering (WISE) Initiative will award approximately 100 travel grants each year to women students majoring in SEM disciplines at CIC institutions to enable them to present papers or posters at professional conferences. This is one part of the WISE Initiative's effort to promote professional development and socialization of women into the disciplines.

Undergraduate and graduate women enrolled in any science, engineering, or mathematics degree program at CIC institutions are eligible. WISE travel grants will be limited to a maximum of \$250 per student. A student's mentor, department chair or dean must provide matching funds for the grant.

Students should print out a copy of the application from the web at: <http://www.cic.uiuc.edu/wise/wisetrvl.html>. Copies of the application form are available in my office as well. Further information about this opportunity is available at: <http://www.cic.uiuc.edu/wise/travel.html>.

The deadline for applications was Monday, November 1, 1999. Five copies of the application should be submitted to Dr. Greene at the following address: Linda S. Greene, Associate Vice Chancellor for Academic Affairs, Rm 117 Bascom Hall, 500 Lincoln Drive, Madison, WI 53706. Questions should be directed to Eden Inoway-Ronnie at 265-5975 or [inoway@mail.bascom.wisc.edu](mailto:inoway@mail.bascom.wisc.edu). Submitted by Bert E. Stromberg. ð

## In Memorium

### Memorial Fund to Honor Dr. Rupert Paul Herd

Dr. Rupert P. Herd, age 68, died peacefully on July 28, 1999 in Columbus, Ohio from non-Hodgkin's lymphoma. Dr. Herd had retired from

The Ohio State University College of Veterinary Medicine in 1995 as Professor of Parasitology in the Department of Veterinary Preventive Medicine. Rupert is survived by his wife Marilyn, four children, and three grand children.

Dr. Herd was educated at Melbourne Grammar and graduated with the BVSc degree from the University of Queensland in 1956. He was employed for 4 years as a Field Veterinary Officer in the Northern Territory, where he participated in the bovine pleuropneumonia eradication campaign. Dr. Herd subsequently served from 1960 to 1966 as District Veterinary Officer in Victoria. In this position, he was the first person to diagnose grass tetany (hypomagnesemia) of sheep in Australia. Based on the merits of his published research on the incidence and management of hypomagnesemia, the University of Melbourne granted the MVSc degree to Dr. Herd without requiring any formal course work.

Rupert came to a career in parasitology somewhat serendipitously. After deciding to pursue a doctoral degree at the University of Melbourne, he enlisted the graduate faculty's assistance in identifying areas of animal health with the most pressing problems and the greatest need for practical solutions. Ergo, parasitology. Thus, Dr. Herd's initial involvement in helminthology was not spawned by a personal interest in the discipline, but rather was an extension of his mission as a veterinarian to alleviate disease and promote animal health. Rupert studied under Jack Arundel, and was awarded the Ph.D. in 1970 for his research on the life cycle and pathogenicity of *Chabertia ovina* in sheep. Notably, his was the first Ph.D. to be granted by the recently founded School of Veterinary Science at the University of Melbourne.

Rupert's initial post-doctoral research was on the immunology of Echinococcosis in canine hosts. He emigrated to the United States in 1976 and joined the faculty of the Department of Veterinary Pathobiology of The Ohio State

University, College of Veterinary Medicine. He remained at OSU until his retirement in 1995.

During the 20 years on the faculty at OSU, Rupert developed strong teaching, research, and graduate programs along epidemiological, ecological, and sustainable principles. He mentored 4 Ph.D. students, 4 Master's candidates, and 1 post-doc. As a mentor, his criticisms were unfailingly constructive. He readily shared his time, ideas, resources, and adventure stories from days in the outback. The students' favorite involved leaping from a speeding Land Rover to capture cattle by the tail. The abandoned vehicle was left to continue on its own until it stalled out, except on one memorable occasion. In recognition of his outstanding achievements as a mentor, The Ohio State University awarded Dr. Herd the Dean's Teaching Excellence Award for Graduate Education.

Rupert's mastery of the international literature and his innovative mindset made him the quintessential early adopter. He appreciated the significance of applied research done in Australia, Europe, and the United Kingdom, and often was the first to investigate those principles in North American conditions. Rupert internationalized epidemiological parasitology in the United States, and a partial list of notables who visited the lab in Columbus includes J.F. Michel, Alan Donald, Peter Waller, Jack Arundel, Gerald Coles, Maarten Eysker, and numerous others.

True to his ultimate purpose, Rupert's parasitological research demanded practical application. Among the innovations that Rupert developed or promoted were pasture hygiene for control of equine nematodes, strategic deworming programs for dairy heifers, sheep and horses, biological control of free-living stages, and sustainable approaches to parasite control. His professional accomplishments included over 110 refereed papers, numerous book chapters, abstracts and presentations. He was appointed on a NATO Fellowship in 1984 to study in Newmarket, England.

Rupert defended his research passionately and was famous for challenging orthodoxy. He

delighted in controversy, perhaps enough to initiate it on more than one occasion. Regardless of whether one viewed him as a thorn or a rose, Dr. Herd has a major influence on veterinary parasitology in North America. One of his proudest achievements came in 1992, when he convened an international workshop in Columbus to discuss the potential ecological impact of the macrocyclic lactone endectocides. The Proceedings of this Symposium were published in June, 1993 as a special issue of *Veterinary Parasitology* (volume 48).

Dr. Herd was very active as an artist, and enjoyed a small exhibition of his drawings and paintings at a gallery in Columbus, Ohio during the past year. He was also a devoted bibliophile, and amassed a collection of over 2000 books. After retiring, Rupert wrote a short memoir of his life entitled "The Rough and the Smooth".

In a cruel twist of fate, Rupert was diagnosed with incurable non-Hodgkins lymphoma the day before his retirement at the age of 64. He attended the 40<sup>th</sup> annual meeting of the AAVP in Pittsburgh only days after this diagnosis, and colleagues in attendance will remember his depleted but courageous appearance. Rupert coped with his disease by learning everything there was to know about non-Hodgkin's lymphoma, and the family notes that his final months were lived with dignity, courage and stoicism.

Rupert's valedictory toast to each of his graduate students was always the same (his emphasis on the adjectives): "Here's wishing you a useful and productive career in parasitology." An estimable goal, and one for which Rupert himself set the standard. We'll miss you Rupe.

A memorial fund has been established for Dr. Rupert Herd. Consistent with Rupert's love of art, proceeds will be used to purchase/commission an original piece of artwork (equine theme) for display on the veterinary campus at Ohio State. Contributions may be made to the Rupert Herd Memorial Fund, and forwarded to Dr. Craig Reinemeyer, 1208 Westbury Road, Knoxville, TN 37922. *Submitted by Craig Reinemeyer.*

## Memorial Conference to Honor Dr. Norman D. Levine

A memorial service in Honor of Dr. Norman D. Levine took place on Saturday, November 6, 1999, in the Atrium of the College of Veterinary Medicine, University of Illinois, 2001 S. Lincoln Avenue, Urbana, IL 61802. Memorial contributions may be made to the Helen and Norman D. Levine Endowment Fund through the College of Veterinary Medicine Development Office at the address above.

The Third Conference on Emerging and Re-Emerging Infectious Diseases will be in April of 2000 at the College of Veterinary Medicine, University of Illinois. The exact date will be announced after the first of the year. This conference will be dedicated to the memory of Dr. Norman D. Levine.

## Dr. Peter Nansen

It is my sad task to let everyone know that Dr. Peter Nansen passed away suddenly on October 26, 1999. Dr. Nansen died as a complication of suffering a cerebral hemorrhage over the previous weekend. The news came from Drs. Michael Larsen and Peter Waller to Jim Miller on October 26th. Dr. Nansen was Director of the Danish Centre for Experimental Parasitology. He will be remembered as a paradigm shifting scientist in the field of parasitology. A further tribute will appear in the next issue of the AAVP Newsletter. Our condolences go to the family and friends of this valued colleague. *Submitted by Linda Mansfield.*

## Clinical News

### New Antiparasitic Drug Selamectin is Launched

Selamectin is a novel avermectin endectocide with a unique combination of efficacy and safety in dogs and cats following both oral and topical dosing. Selamectin was discovered by screening *in vitro* against *Ctenocephalides felis* adults and against fourth stage larvae (L4) of heartworm (*Dirofilaria immitis*). A minimum effective concentration of 0.25 ug/ml was

determined for selamectin against *C. felis* adults feeding on blood incorporating test material. A concentration of 0.50 ug/ml selamectin was 100% effective against L4 *D. immitis* within 4 hours of treatment. Safety of selamectin was assessed in pre-screened avermectin sensitive collies. An oral dose of 15 mg/kg of selamectin in a sesame oil vehicle elicited no side effects in any of the animals tested. The efficacy of selamectin via the oral route against fleas was assessed in two controlled studies in dogs and cats. Animals were prescreened for their ability to maintain flea burdens and then randomly allocated to treatment groups (n=6 animal/group). One treatment was administered placebo, and the other treatment was administered 2 mg/kg of selamectin in a sesame oil vehicle. Animals were infested with 100 unfed *C. felis* on day 0, and the flea efficacy was determined by hand counts conducted 48 hours after infestation. Selamectin was 99% effective in both dogs and cats. Two further nematode efficacy studies were conducted in random sourced dogs and cats harboring natural infections of hookworms and roundworms. Animals were dosed with selamectin at 2 mg/kg in sesame oil on day 0 and necropsied and worms recovered on day 28. Selamectin was 100% effective against *A. caninum*, *U. stenocephala*, *T. canis* and *T. leonina* in dogs and against *A. tubaeforme* and *T. cati* in cats. The objective of subsequent studies was to provide extended persistence against fleas by dosing selamectin topically. A prototype dipropylene glycol monomethyl ether (DPGMME)/isopropyl alcohol (IPA) based topical formulation was identified and tested against fleas in dogs in a controlled study. Animals received a single topical dose of selamectin (8 mg/kg) in the DPGMME/IPA formulation on day 0 and were infested with fleas on day 1, 4, 11, 18, 23, and 27. At day 30, a flea efficacy of 99.4% was recorded (comb count) indicating that a single topical dose of selamectin provided persistent efficacy against fleas for at least one month. *Abstract in the Proceedings of the 44<sup>th</sup> Annual Meeting of the American Association of Veterinary Parasitologists.* ♂

## AAVP Awards

### Congratulations to Award Winners

Dr. Rob Rew (*Managing Livestock Technical Services Parasitologist*) began his term as President of the American Association of Veterinary Parasitologists at the organization's July meeting in New Orleans. Here, Rob presents a plaque to outgoing President Dr. Lou Gasbarre, honoring him for his service as president (below).

Also during the meeting, Dr. Terry Skogerboe (*Project Manager, Clinical Development*) presented the Pfizer "Outstanding Veterinary Parasitologist" Award to Dr. Roger Prichard, and the Hoescht-Roussel "Outstanding Veterinary Parasitology Graduate Student" Award to John Matthew. Rob Rew has also been elected to "Who's Who in Science & Technology in the U.S.," and will be listed in the year 2000 edition. Congratulations to Rob, Roger Pritchard and John Matthew for these well deserved honors!

*Submitted by Bert Stromberg. ☺*



**Rob presents a plaque to outgoing President Dr. Lou Gasbarre**

### Congratulations to Our New AAVP Officers

Based on the results of elections, the current Officers of AAVP for 1999-2000 are as follows: President-Dr. Robert Rew, Pfizer, Inc., 812 Springdale, Exton, PA, President-Elect- Dr. Tom Kennedy, Bayer Animal Health, 9009 W. 67<sup>th</sup> Street, Merriam, KS, Vice-President and Program Chair-Dr. Anne M. Zajac, Virginia Tech, Blacksburg, VA 24061, Secretary/Treasurer-Dr. Dan Snyder, Elanco Animal Health, Box 708, Greenfield, IN, Past President- Dr. Lou Gasbarre, USDA, ARS, LPSI, IDRL, Beltsville, MD.  
*Submitted by Dan Snyder.*

## Positions Available

### Immunologist Position Available, Cattle Responses to *Neospora caninum*

The Immunology and Disease Resistance Lab, LPSI, Beltsville, MD is seeking a permanent full time Immunologist. The scientist will characterize immune responses to *Neospora caninum* infections and will develop means to use host immunity in parasite control. U.S. citizenship is required. Salary range (GS11/12) is \$40,714 - 63,436 per annum and is commensurate with experience (Ph.D. desired). The position has specific requirements that must be addressed. Announcements are available by calling 301-504-1484, or by the Internet at [www.ars.usda.gov/afm/hrd/resjobs](http://www.ars.usda.gov/afm/hrd/resjobs) (announcement #ARS-D9E-9403). Applications must be postmarked by October 4, 1999. For information on the research program contact Dr. Joan Lunney at 301-504-8201. The USDA/ARS is an equal opportunity provider and employer.

The scientist is responsible for conducting research to characterize the host immune response to infection and for developing means to use host immunity to control *N. caninum* infections in cattle and rodent models. As part of the research team, the incumbent is responsible for initiating, planning, coordinating, evaluating, and reporting all aspects of studies on immunity to *N. caninum* infections. The scientist is expected to collaborate with scientists within and outside of the ARS on studies of immunity to parasitic infections. Please

contact Joan K. Lunney, Ph.D., Research Leader, Immunology and Disease Resistance Laboratory, LPSI, ARS, USDA, Building 1040, Room 107, Beltsville, MD 20705, PH: 301-504-8201 or – 9368, FAX: 301-504-5306, email: [jlunney@lpsi.barc.usda.gov](mailto:jlunney@lpsi.barc.usda.gov)

### **Parasitology Tenure Track Position**

The University of Notre Dame Department of Biological Sciences invites applications for a tenure track faculty position in the Parasitology/ Vector Biology research group. Qualified persons should have a strong research history in the area of host pathogen interactions. Individuals from any research area are encouraged to apply, but preference will be given to candidates with interdisciplinary research interests in the areas of immunology, microbial pathogenesis, vaccine development or other areas that complement existing research programs of the group. Parasitology programs include molecular cell biology of the Apicomplexa (Adams), immunology and cell biology of Mycobacterium (Schorey), and biochemistry of animal parasites (Saz). Vector biology programs include molecular evolutionary genetics of mosquitoes (Besansky), genetics of arthropod vectors of human pathogens (Collins), molecular biology and genetics of viruses (Fraser), vector-borne disease ecology and epidemiology (Grimstad), and quantitative and population genetics of mosquito vectors (Severson). Successful candidates are expected to develop an extramurally funded research program and participate in the interdisciplinary training program. Normal teaching duties are one course a semester, usually one graduate and one undergraduate course per year. Additional information is available at <http://www.science.nd.edu/biology>. Applications should include a curriculum vitae, copies of up to 3 representative publications, letters from three references, a statement of research interests and a statement of teaching interests. Appointment will commence August 2000. Send applications to: Parasitology Search Committee, Department of Biological Sciences, P.O. Box 369, University of Notre

Dame, Notre Dame, IN 46556-0369. For further information contact Dr. John Adams via e-mail at: [adams.20@nd.edu](mailto:adams.20@nd.edu). The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

### **Research Associate Position, Department of Agriculture (USDA), Agricultural Research Service (ARS)**

Postdoctoral Research Associate Position (2 years), GS-11. Immunology and Disease Resistance Laboratory (IDRL), Livestock & Poultry Sciences Institute, Beltsville Agricultural Research Center, Beltsville, MD is seeking a postdoctoral research associate to apply functional genomics tools in the study of avian parasitic diseases. The primary duties include the application of molecular genetic methods to the identification of host genes important in intestinal protective immune responses to parasites. A recent (within 4 years) Ph.D. in Microbiology, Cell Biology, or Molecular Biology is required. Experience in cloning, library construction and probing, subtractive hybridization and genotyping is required, as is skill in DNA sequencing, RNA, and computer data analysis. Experience with differential gene expression and DNA microarrays is desirable. Starting salary is \$40,714 per annum and includes benefits. Please send your CV including college transcripts, to Dr. Hyun Lillehoj, USDA, LPSI, IDRL, BARC-East, Building 1043, Beltsville, MD. 20705 or E-mail to [hilleho@lpsi.barc.usda.gov](mailto:hilleho@lpsi.barc.usda.gov). Citizens of certain foreign countries may be eligible. USDA, ARS is an Equal Opportunity Provider and Employer.

### **Molecular Immunology Faculty Position**

The Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine invites applications for a calendar-year tenure-track Assistant Professor position. The appointee will be expected to develop an independent and extramurally funded research program focusing on the molecular aspects of the development of

antibody and/or cell mediated mechanisms of mucosal immunity, including the role of cytokines as immunomodulators. The appointee will also collaborate with other college faculty in an ongoing research program focused on vaccine development, and participate in the Virginia Tech Pharmaceutical Engineering Institute.

The successful applicant will also be expected to take part in the instructional programs of the College as appropriate. Applicants must have a Ph.D. and post-doctoral experience. In addition, the D.V.M., M.D., or equivalent medical degree is preferred. Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, people of color, and people with disabilities. Send a letter of application, description of research goals, curriculum vitae, and names of 3 references to Dr. Ludeman Eng, Head, Department of Biomedical Sciences and Pathobiology, College of Veterinary Medicine, Virginia Tech, Blacksburg, VA 24061.

Individuals with disabilities desiring accommodations in the application process should notify Dr. Eng at the address above, or by calling (540) 231-4652, or by e-mail at [laeng@vt.edu](mailto:laeng@vt.edu), or the Virginia Telecommunications, Relay Service (800) 828-1120. Review of applications will begin on November 1, 1999 but applications will be accepted until a suitable candidate is identified. *Submitted by David S. Lindsay, PhD.*

**Assistant Professor. Parasitologist/General Zoologist, Metropolitan State College of Denver, August 2000.**

A full-time, tenure-track position is offered in parasitology or general zoology. The candidate will teach undergraduate courses in Introductory Biology for science and/or non-science majors, General Zoology, Parasitology, and possibly another advanced course in a field of specialty. An earned doctorate in zoology, with graduate-level specialization in parasitology is required. Experience in molecular genetics and successful college teaching experience is preferred. For a full description of responsibilities, qualifications, and

application procedure, write or phone Dr. Robert R. Cohen, Dept. Biology-Campus Box 53, Metropolitan State College of Denver, P.O. Box 173362, Denver, CO 80217-3362, (303-556-3195). MSCD is an Equal Opportunity / Affirmative Action employer.

## Future Meetings

### **Agricultural Microbes Genome I Conference (AMG-I), January 13-14, 2000, San Diego, CA**

You are invited to attend the Agricultural Microbes Genome I Conference (AMG-I), January 13-14, 2000 taking place at the Town & Country Hotel in San Diego, California. This e-mail is a call for abstracts. The meeting will be held directly following the Plant & Animal Genome VIII Conference ( <http://www.intl-pag.org/pag/> ).

The AMG-I meeting will consist of three (3) lecture sessions and one (1) poster session. The sessions will cover topics of (i) Sequencing, (ii) Technology & Bioinformatics, and (iii) Functional Genomics and Applications. One workshop on Genome Project Funding will also be held. More information about the meeting may be viewed via the World Wide Web (WWW) at: <http://www.ag-microbial.org/amg/>.

Important Dates & Deadlines to Remember: Abstract Deadline: October 15, 1999. All researchers presenting posters must pre-register for the meeting to have their abstract printed in the final meeting program. You may submit your abstract electronically from: <http://www.ag-microbial.org/agm/agmabstracts.html>. Pre-Registration Deadline: November 5, 1999 [for the reduced fee of \$150 (non-profit/univ/gov't)/\$250 (industry)]. If you also registered for the Plant & Animal Genome VIII Conference, then pre-registration fees for the Agricultural Microbes I Conference will be the reduced fee of \$75 (all categories). After November 14: The on-site registration fee of \$250 (non-profit/univ/gov't)/\$350 (ind) applies. Postmarked date will be used for all deadlines. The student registration fee for the meeting is only \$50. For Secure On-line registration go to: <https://www.chemint.org/https/microblreg.html>. Hotel Cut-Off Deadline:

December 16, 1999. It is expected that the hotel will be SOLD OUT so people should book early. Requests for VISA letters, if needed, should be directed to Steve Heller at the following E-mail address: [srheller@nal.usda.gov](mailto:srheller@nal.usda.gov). United airline travel code: 567HM. All administrative questions regarding Agricultural Microbes Genome I should be directed to Scherago International at the following: Tel: 212-643-1750 ext. 25, Fax: 212-643-1758 or, E-mail: [pag@scherago.com](mailto:pag@scherago.com). I look forward to seeing you at the upcoming Agricultural Microbes Genome I Conference. Sincerely, Darrin Scherago, Meeting Manager, Scherago International, Inc., 11 Penn Plaza, Suite 1003, New York, NY 10001, Tel: 212-643-1750 ext. 20 / Fax: 212-643-1758. E-mail: [darrins@scherago.com](mailto:darrins@scherago.com). Website: <http://www.scherago.com>

### **3<sup>rd</sup> Seminar on Food- and Water-borne Parasitic Zoonoses in the 21<sup>st</sup> Millennium**

The 3<sup>rd</sup> Seminar on Food- and Water-borne Parasitic Zoonoses in the 21<sup>st</sup> Millennium will be held on December 6 to 8, 2000 in Bangkok, Thailand. This seminar will focus on food- and water-borne parasitic zoonoses. It will provide a forum for presenting research progress, exchanging ideas to solve problems on food and waterborne parasitic infections and for promoting collaboration among participating researchers. The topics will include current problems, epidemiology and control, molecular biology and biochemistry, immunology and vaccination, diagnosis and treatment, intermediate hosts and food safety of the parasitic zoonoses. English will be the official language and the venue is the Royal River Hotel in Bangkok, Thailand. The abstract deadline is September 30, 2000. For further information please contact Dean, Faculty of Tropical Medicine, Mahidol University, 420/6 Rajvithi Road, Bangkok 10400, Thailand, Tel: 66-2-2469000-13, 2460056, 2460058; FAX: 66-2-2469006, 2468340; email: [deantm@mahidol.ac.th](mailto:deantm@mahidol.ac.th); website: <http://www.mahidol.ac.th/mahidol/tm/>.

## **Future Meetings of the AAVP**

### **45<sup>th</sup> AAVP Annual Meeting (July 22-25, 2000)**

It's not too early to mark your calendars for next year's annual meeting which will be in Salt Lake City from July 22<sup>nd</sup> to 25<sup>th</sup>. **The deadline for abstracts for the meeting will be March 15, 2000.** As usual, a letter calling for abstracts will be sent out early next year. Graduate students are particularly encouraged to submit abstracts for the meeting and can apply for an AAVP Travel Grant to help cover travel expenses. *Submitted by Ann Zajac.*

### **Future Venues for AAVP Meetings**

2000 Salt Lake City, UT 22-26 July  
2001 Boston, MA 14-18 July  
2002 Nashville, TN 13-17 July  
2003 Denver

## **New Animal Health Journal to Begin Soon**

### **Animal Health Research Reviews**

Recently, the Publishing Board of Directors for CAB International gave the final approval to begin publication of the new journal, Animal Health Research Reviews, in collaboration with CRWAD. The first issue will be published June 2000. We plan to publish 2 issues per year at first and expand to a quarterly journal in the future. The journal will be available as hard copy or electronic, or both. CRWAD member will be able to subscribe at a reduced rate. Please consider authoring pertinent review articles so that we can get the journal off to an excellent start. Contact me for author information, journal format, etc. We will consider articles that have to do with most all aspects of animal health. As Editor-in-Chief, I look forward to your journalistic contributions and support of Animal Health Research Reviews.

The author instructions for the new Animal Health Research Reviews Journal are now available at the CRWAD web site: <http://www.cvmbs.colostate.edu/microbiology/crwad/crwad.htm>. CRWAD members who have requested these

author instructions will also be receiving them through the mail in the near future.

For further information about CRWAD and the new journal please contact Dr. Robert P. Ellis, Microbiology, College of Veterinary Medicine and Biomedical Sciences, Colorado

State University, Ft. Collins, CO 80523-1677, USA, voice:(970)491-5740, fax:(970)491-1815 [rellis@cvmbs.colostate.edu](mailto:rellis@cvmbs.colostate.edu). *Submitted by Robert P. Ellis.*

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# AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS (AAVP)

FOUNDED 1956

## AFFILIATED WITH THE AMERICAN VETERINARY MEDICAL ASSOCIATION NEW MEMBER APPLICATION

The objectives of the AAVP and its requirements for membership (Articles II and III of the AAVP Constitution) are:

**Objectives:** "The objectives of the organization shall be to provide for the association of persons interested in the advancement of veterinary parasitology, and for the presentation and discussion of items of common interest, and to further scientific progress by education and research in veterinary parasitology. This association is organized exclusively for scientific and educational purposes within the meaning of section 501(C)(3) of the Internal Revenue Code. Notwithstanding any other provision of this constitution, the Association shall not carry out any other activities not permitted to be carried out by an organization exempt from Federal Income Tax under section 501(C)(3) of the Internal Revenue Code."

**Membership:** "Section 1: Members shall consist of those individuals qualified by background, education and interest in veterinary parasitology. Section 2: New members, except honorary and emeritus, shall be admitted by the Secretary-Treasurer with approval of the Executive Committee, after filing application for membership to the association. Section 3: Honorary membership shall be awarded by the Association to persons who are not members of the Association in recognition of outstanding and sustained achievements in veterinary parasitology. Candidates for honorary membership shall be recommended to the awards committee by any member. Nomination for honorary membership shall be made by the Awards Committee to the membership and election shall be majority vote at the annual meeting. Honorary members shall not be eligible to vote and shall not be assessed dues. No more than two (2) honorary members shall be elected in any one year period. Section 4: Upon retirement a member may become an emeritus member on approval of the Executive Committee of a written request to the Secretary-Treasurer for such status. Emeritus members shall retain voting rights but shall not be assessed dues. Section 5: Forfeiture of membership will occur where dues are not paid for at least two consecutive years. A member who has forfeited membership by nonpayment of dues must reapply for membership. Section 6: Expulsion of a member may occur if a motion for expulsion is presented by the Executive Committee at the annual meeting and passed by four-fifths (4/5) of the members present and voting. The member is to be informed in writing of such a motion at least two months in advance of the annual meeting at which the motion is to be presented. Section 7: The Executive Committee may annually invite any firm, association, corporation, institution or subdivision thereof, to become a corporate associate member, for financial support of the Association."

Should you wish to become a member of the AAVP, please provide the following information and send this form and a check (regular membership \$20.00, student membership \$10.00, U.S. currency) payable to the AAVP, to the Secretary-Treasurer at the address given below. **The 2000 dues year runs from September 1, 1999 to August 31, 2000.**

\_\_\_\_\_  
Name and Academic Degree (s)

\_\_\_\_\_  
Institutional/Business Affiliation

\_\_\_\_\_  
Mailing Address (Office/Lab)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Fax Number

\_\_\_\_\_  
Email Address

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#### **PRESIDENT**

Dr. Robert Rew  
Pfizer Inc.  
812 Springdale  
Exton, PA 19341  
(610) 363-3143

#### **PRESIDENT ELECT**

Dr. Thomas Kennedy  
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9009 West 67<sup>th</sup> Street  
Merriam, KS 66202  
(913) 962-2890

#### **IMMEDIATE PAST-PRESIDENT**

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USDA, ARS, BARC-East  
Bldg 1040, Room 105  
Beltsville, MD 20705  
(301) 504-8509

#### **SECRETARY-TREASURER**

Dr. Daniel E. Snyder  
c/o Elanco Animal Health  
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#### **VICE-PRESIDENT**

Dr. Anne M. Zajac  
Virginia Tech  
VA/MD Reg. College Vet. Med  
Blacksburg, VA 24061  
(540) 231-7017

# AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS

## 2000 MEMBERSHIP RENEWAL

Please use this form for the payment of dues to the AAVP for the year 2000 membership period. The 2000 dues year runs from September 1, 1999 to August 31, 2000. Please complete the form with any updated information and return it to me at the address below. Please pay your dues promptly. The success of the AAVP is at least in part dependent on fiscal survival.

PLEASE PRINT

Name \_\_\_\_\_  
                    Last                                    First                                    MI

Institution/Business Affiliation \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

e-mail address \_\_\_\_\_

**Dues: \$20.00 (\$10.00 for students) in U.S. Funds and drawn on a U.S. bank. Make check payable to the American Association of Veterinary Parasitologists (AAVP). Please do not make the check out in the name of the secretary-treasurer.**

**Return to:                      Dr. Daniel E. Snyder, Secretary/ Treasurer  
   American Association of Veterinary Parasitologists**

### Mail Drop GL18

P.O. Box 708  
Greenfield, IN 46140 USA  
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fax: 317/277-4532  
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The American Association of Veterinary Parasitologists Newsletter is published three times each year with issues in February, June and October. Contributions to the Newsletter are welcome and should be submitted by the 20th of the month prior to each date of issue.

### **AAVP Newsletter Deadlines for Submissions**

<u>Newsletter</u>	<u>Deadline</u>
October, 1998	September 20, 1998
February, 1999	January 20, 1999
June, 1999	May 20, 1999

Please contact the editor with questions regarding these dates.



