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# AAVP Newsletter

American Association of Veterinary Parasitologists

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February, 1997

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## President's Message

### Update: The Emerging Saga of Cyclosporiasis in the United States

*Cyclospora cayatanensis* (previously termed cyanobacterium-like body) is a recently characterized coccidian parasite. The first known cases of infection in humans were diagnosed only about 20 years ago. In 1996 an outbreak of *Cyclospora* infection occurred in the United States and Canada affecting more than 1400 persons (laboratory-confirmed cases) in 20 states and Canadian provinces. Despite early erroneous reports incriminating strawberries, investigations by state and local health authorities coordinated by CDC, FDA, and the USDA, and PAHO, clearly implicated consumption of fresh raspberries imported from Guatemala as the source of infection. Nevertheless, despite on-site investigations in Guatemala, the mode by which the raspberries became contaminated has not been identified. As a result of the investigation, raspberry growers/exporters in Guatemala are improving hygienic conditions on their farms and are developing and implementing a Hazard Analysis and Critical Control Point program to facilitate elimination of potential hazards. Surveillance systems have been put in place to examine produce shipped to the United States in future years and for early detection of outbreaks. This extraordinary outbreak has illustrated that contamination of produce can cause widespread illness in other parts of the world. New questions have been raised regarding food safety in a growing global market, international trade regulations, and coordination of public health messages for new pathogens. These investigations have been hindered by the poor knowledge of this

protozoan, including means of isolation and diagnosis, its possible reservoir hosts, and modes of transmission. There is a lot of ignorance out there--an excellent challenge for veterinary parasitologists. *President, Peter M. Schantz.*

## Annual Meeting Update

### Annual Meeting in Reno Nevada

As a reminder, this year's annual meeting will be held in Reno, Nevada on the dates of July 19 through July 21. We have had a very great response to our call for abstracts, and we will be having a very busy meeting. In addition, we are planning on conducting 3 sessions where we have invited some very dynamic speakers to present longer talks in the area of their expertise. These sessions will deal with: modern concepts in the biology and control of nematodes, immune

## CONTENTS

<i>President's Message</i>	1
<i>Annual Meeting Update</i>	1
<i>News in Brief</i>	2
<i>From the Secretary/Treasurer</i>	3
<i>Research News</i>	4
<i>Committee News</i>	4
<i>News From Other Societies</i>	5
<i>Awards</i>	5
<i>Positions Available</i>	5
<i>Database Information</i>	7
<i>Future Meetings</i>	9
<i>Future Meetings of the AAVP</i>	10
<i>Enclosures</i>	10
<i>Student Travel Grant Application Form</i>	11

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responses to parasites at mucosal surfaces, and cestodiasis. The combination of a larger number of submitted papers, the invited papers, and the timing of the President's symposium means that the duration of the meeting will be slightly longer this year. We are going to begin the scientific sessions late Saturday afternoon, so you should plan on arriving in Reno by early afternoon on Saturday the 19th. The President's symposium is scheduled for Tuesday afternoon and not Tuesday morning as has been the case in the past. As a result, we will conduct 2 of the invitational sessions on Tuesday morning. This will provide a bridge to the President's symposium, and free more time on Sunday and Monday for the large number of papers submitted. As a result, you should plan on departing at a later time than normal on Tuesday.

I am very excited about the upcoming meeting. We have received a large number of interesting abstracts, and it appears that the meeting will be attended by quite a few people, including a substantial number of scientists from outside of the US. So, mark your calendars and remember that the timing of the meeting will be slightly different, and you should plan on staying slightly longer than the usual stay. Tom Kennedy has been working hard to insure that there is ample opportunity for social interaction. The combination of the scientific and social programs should ensure that you won't be bored during your stay. **SEE YOU ALL IN RENO!**

Should you have questions, please contact Dr. Lou Gasbarre, Vice-President and Program Chairman, USDA-ARS, Building 1040, Room 105, BARC-East Beltsville, Maryland 20705, Phone: 301-504-8509 or FAX 301-504-5306. *Submitted by Lou Gasbarre, Program Chairman* ð

## News in Brief

### **“Merial Animal Health” becomes the largest animal health and poultry genetics company**

Rhone Merieux and Merck & Co., Inc. will combine their animal health and poultry-genetics businesses to form Merial Animal Health, which will be the largest animal health and poultry

genetics company in the world. The new international company will be a stand-alone, 50-50 joint venture with a revenue base of \$1.7 billion, according to the company. Dr. John Preston, president of Merck Agvet, will be chairman of Merial Animal Health for the first two years. Louis Champel, president of Rhone Merieux, will be chief executive officer. A letter of intent was signed December 19th. The new company is subject to approval by European, French and U.S. authorities. Press release, Merck & Co., Inc., Rahway, N.J. 07065.

### **Emerging Diseases Take the Forefront in Research Funding**

Human death due to infectious diseases increased at an alarming rate in the United States between 1980 and 1992 despite historical predictions (Pinner et al., 1996). “Emerging” infectious diseases can be defined as infections that have newly appeared in a population or have existed, but are rapidly increasing in incidence or geographic range. Currently, under suitable circumstances, a new infection first appearing anywhere in the world can traverse entire continents within days or weeks (Morse, 1995). The current outbreak of bovine spongiform encephalopathy (BSE) in England is an example of an emerging infection that threatens the agricultural industry in that country.

Many factors or combination of factors can contribute to emergence of disease. Environmental factors such as floods or deforestation, societal events such as war or urban decay, health care changes such as use of drugs causing immune suppression or widespread use of antibiotics, and demographic factors such as global travel and suburbanization of previously agricultural areas are placing people at increased contact with new or drug resistant organisms, and wild or domestic animal hosts or reservoirs harboring infectious organisms, leading to deadly outbreaks of disease. Many microbes respond to the intense selection pressures of drug treatment by adaptation and change which can result in changes in virulence, toxin production, development of drug resistance and other effects. Changes in health care delivery systems and

curtailment of funding for the public health infrastructure also affect the spread of infectious organisms.

There are a number of parasitic diseases of humans that are considered to be emerging by the U.S. Centers for Disease Control. Emerging parasitic diseases listed in a recent CDC publication include cryptosporidiosis, toxoplasmosis, giardiasis, drug-resistant malaria, amebic meningo-encephalitis, *Echinococcus multilocularis*, intestinal helminthiasis, leishmaniasis and others (Satcher, 1994).

Specific factors precipitating disease emergence can be identified in virtually all outbreaks, if measures are initiated rapidly, but this does not always occur. Control cannot be attempted without appropriate investigatory, diagnostic, research and educational responses. Early identification and control of emerging infections is critical because many chronic diseases in humans have been linked to early exposure to infectious agents some of which may be originating from animal reservoirs. Scientists are beginning to believe that serious diseases such as diabetes mellitus, hemolytic uremic syndrome, Guillain-Barre Syndrome, gastric carcinoma, Reiter's syndrome, Lyme arthritis, hypertensive renal disease, congenital mental retardation, etc. could be prevented, in many cases, by eliminating early infectious disease exposure. Action is needed to more closely link the scientific community and public health officials to prepare for problems associated with growth in population numbers, growth in the number of elderly, and growth in the number of immune compromised individuals that World Health Organizations predict we will have in the next century.

The CDC's prevention strategy is straightforward and includes the following goals. Goal I Surveillance: Detect, promptly investigate, and monitor emerging pathogens, the diseases they cause, and the factors influencing their emergence. Goal II Applied Research: Integrate laboratory science and epidemiology to optimize public health practice. Goal III Prevention and Control: Enhance communication of public health information about emerging diseases and ensure prompt implementation of prevention strategies. Goal IV Infrastructure:

Strengthen local, state, and federal public health infrastructures to support surveillance and implement prevention and control programs. This process will be approached in stages, as a long term endeavor to ensure sustainable impact, and will involve major extramural efforts. In this regard, funding has been provided through the National Institutes of Health through an RFA entitled "Expanded Research on Emerging Diseases", PA-96-048. Applications to this and other federal funding programs on emerging diseases will be a direct response to the CDC's call for increased technological solutions to emerging disease problems. The CDC and other governmental agencies stress the need for multiple agencies and organizations with expertise in infectious diseases to work together to solve these serious problems.

#### References:

- 1) Anonymous. 1993. U.S. Department of Health and Human Services, Public Health Service. Healthy People 2000: National Health Promotion and Disease Prevention Objectives.
- 2) Morse SS. 1995. Factors in the emergence of infectious diseases. *Emer. Inf. Dis.* 1(1):7-15.
- 3) Pinner RW, Teusch SM, Simonsen L, Klug LA, Graber JM, Clarke MJ, and Berkelman RL. 1996. Trends in infectious diseases mortality in the U.S. *J. Amer. Med. Assoc.* 275(3):189-193.
- 4) Satcher D. 1994. Addressing Emerging Infectious Disease Threats: A prevention strategy for the United States. US Department Health and Human Services, Centers for Disease Control, Atlanta GA. *Submitted by Linda S. Mansfield.* ◊

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

**1997 Meeting:** Preparations are underway for the 1997 meeting in Reno, Nevada 19-22 July, so mark your calendar. Parts of the program are already in place for what promises to be an exciting meeting. Reno will be a great host city, with many varied activities. The AVMA has selected the Peppermill Hotel and Casino to be the location for all of the AAVP meetings, so be sure to request this venue on the housing form. Housing forms will be available in JAVMA in April, but will also be sent to you in March, along with the pre-registration forms.

**1997 Dues:** The response to the request for 1997 dues has been great. As of 1 February, over 50% are current and many of you take care of dues at the annual meeting. We continue to be a fiscally healthy organization, thanks to the generous support of the membership. If you have any questions about your dues status, call me (847 970-4514), fax (847 970-4560) e-mail tjkenne@MKG.com or write (c/o Mallinckrodt Veterinary, Inc., 421 East Hawley Street, Mundelein, IL 60060).

**Addresses and Telephone numbers:**

Please send any changes in your address, telephone, e-mail or fax numbers to the Secretary. A committee has been formed to develop a Web site for the AAVP, so if you have an e-mail address, please include it on your dues form or send it to the Secretary as soon as possible. The updated directory will be issued in a very simple unbound format in March. Keep the directory up to date! Tom Kennedy, Secretary/Treasurer, AAVP. ☺

**RESEARCH NEWS**

**Burroughs Wellcome Visiting Professorship Program**

The Wellcome Visiting Professorships in the Microbiological Sciences are sponsored by the Burroughs Wellcome Fund and administered by the American Society for Microbiology. The professorships are offered annually to U.S. universities, medical schools, and other nonprofit scientific research institutions to enable them to bring in distinguished scientists whose interest relate to the following fields: bacteriology, biotechnology, immunology, microbiology, molecular biology, mycology, parasitology, and virology.

The professorships are intended to stimulate interest in the microbiological sciences and to enhance communication among scientists in the specified disciplines. It is anticipated that 5 awards will be made for 1997-98. Each invited scientist will serve as Wellcome Visiting Professor and spend up to 5 days at the host institution

where he or she will engage in teaching and discussion with students and faculty. The professor also will deliver a Wellcome Lecture on a subject pertinent to his or her discipline.

The awards provide \$5,000 for each visiting professorship. At least \$2,000 of the award, along with a plaque furnished by the Fund, should be presented to the visiting professor at the time of the Wellcome Lecture. The balance should be used for the professor's travel expenses and other direct expenses incurred by the visiting professorship.

The application deadline is May 1, 1997. The application must be made by the chair of the department at the institution wishing to receive a visiting professor. The application must be signed by an appropriate official of the institution (dean, chancellor, or president). Application forms may be requested from the Wellcome Visiting Professorship Program, Office of Awards, American Society for Microbiology, 1325 Massachusetts Avenue, N.W., Washington, D.C. 20005. For more information please contact ASM by telephone at 202-942-9226 or by FAX 202-942-9380. ☺

**COMMITTEE NEWS**

**AAVP Awards Committee**

The AAVP Awards Committee would like to receive nominations for the following awards **by April 1, 1997:** 1. Distinguished Veterinary Parasitologist Award, 2. AAVP-Hoechst Roussel Vet Graduate Student Award, 3. AAVP Distinguished Service Award, 4. AAVP Student Travel Grant. A complete description of the awards, criteria for selection and nomination procedures can be found on pages 12 to 14 of this issue of the Newsletter. Please submit nominations to Dr. Daniel E. Snyder, Chair, AAVP Awards Committee, ELANCO Animal Health Research and Development, Mail Drop GL18, 2001 West Main Street, P.O. Box 708, Greenfield, Indiana 46140, Phone: 317-277-4439, Fax: 317-277-4532; E-mail: Snyder-Daniel-E@Lilly.Com.

## NEWS FROM OTHER SOCIETIES

### Japanese Society of Parasitology

The Japanese Society of Parasitology has arranged for Elsevier Science to redesign and publish the *Japanese Journal of Parasitology* as *Parasitology International*. The Society has published the *Japanese Journal of Parasitology* since 1951. Recently, they recognized that the journal needs a wider dissemination and increased visibility which led to the new format.

The new Editor-in-Chief will be Professor Tsutomu Takeuchi from the Department of Tropical Medicine and Parasitology, Keio University School of Medicine, Tokyo, Japan. Professor Stephen L. Hajduk from the Department of Biochemistry and Molecular Genetics, The University of Alabama at Birmingham, Birmingham, Alabama, USA and Professor Derek Wakelin, Department of Life Sciences, University of Nottingham, Nottingham, UK have been appointed Regional Editors for the Americas and Europe, respectively.

*Parasitology International* encourages submissions of scientific articles for publication. The table of contents of this journal will be published in FEMS Microbiology which should ensure wide visibility of published materials. Submitted by Joyce Hobebelink, Marketing Communications Manager, *Parasitology International*. ☺

## AWARDS

### National Distinguished Agricultural Research Service Scientist of the Year for 1996

Dr. Ron Fayer of the Agricultural Research Service in Beltsville, Maryland was selected as the National Distinguished ARS Scientist of the Year for 1996. The award recognizes his "exceptional research and leadership which has resulted in major advances in the control of nationally important livestock disease problems, particularly cryptosporidiosis." The award was presented in a ceremony in Beltsville, Maryland which brought in all the regional winners. Dr. Fayer and the winner

of the ARS Young Scientist of the Year gave speeches. Submitted by Byron Blagburn. ☺

## POSITIONS AVAILABLE

### Research Scientist Position, Agricultural Research Service

The United States Department of Agriculture Research, Education, and Economics, Agricultural Research Service announces a vacancy for a permanent position as a Research Scientist. This is an inter-disciplinary position for scientists with a background in Physiology, Microbiology, Chemistry, or Molecular Biology. The grade classification will be GS- 12/13. Salary will be: GS-12: \$45,939, GS-13: \$54,629 which will include a 7.11% locality payment. The position will be located at the USDA, ARS, LPSI, Immunology and Disease Resistance Laboratory, Beltsville, MD, 20705, phone 301-504-8201. The opening date for the job is February 3, 1997 and the closing date is March 24, 1997.

The incumbent will design, conduct, and evaluate research on protozoan parasites affecting food animals and public health. The incumbent will conduct research to develop diagnostic tests for *Cryptosporidium parvum* to aid in epidemiologic and ecologic studies. The incumbent will serve as a member of a team of researchers whose aim is to develop novel control methods for protozoan parasites with particular emphasis on *C. parvum*. The incumbent's experiments will help identify critical control points for transmission of *C. parvum* and other protozoan parasites and will be useful for improved prevention of disease spread in animals and in the environment.

Qualifications: In addition to basic education requirements, the candidate must have either; (1) Graduate Education: with major study in the basic microbiology, biochemistry, physiology, molecular biology or specific area of study such as bacteriology, virology, mycology, algology, protozoology, parasitology, immunology, serology, microbial genetics, or soil microbiology; or applied fields such as clinical and public health microbiology, food technology,

production processes, industrial fermentation, pollution; or fields such as pathology, infectious diseases, epidemiology, biochemistry, animal or plant physiology, genetics, plant pathology, and insect control provided it has direct application to microbiological work or is a related discipline appropriate to the position. (2) Specialized Experience for GS-12, Ph.D. or equivalent degree or 1 year of specialized experience equivalent to the GS-11 level. For GS-13, 1 year of specialized experience equivalent to the GS-12 level. Specialized experience is experience that has equipped the applicant with the particular knowledge, skills, and abilities which demonstrates: 1) Knowledge of immunology, biochemistry, and molecular biology. 2) Skill in the independent performance of research investigations to plan, conduct, coordinate, interpret findings, and to make accurate reports on the results.

How to apply: Send a resume, curriculum vitae, SF-171, or Optional Application for Federal Employment, OF-612, to the contact address. Please refer to announcement number: ARS-D7B-059 when inquiring or applying for this position. The following information is needed to evaluate applicant qualifications and to determine if applicants meet legal requirements for Federal employment: Announcement number, title, and grade(s), full name, mailing address (including zip code) and day and evening phone numbers (with area code), social security number, U.S. Citizenship required, Veterans' Preference, highest Federal civilian grade held (if applicable), and highest education level achieved. Please specify: name, city, state, zip code (if known), date or expected date (month/year) of completion of degree requirements, and type of degree received. Graduates of foreign universities must include proof of foreign equivalency to an accredited U.S. college/university. Copy of college transcripts or list of college courses are needed if required under qualifications or if applicable to the position. Paid and nonpaid work experience is required if related to the position. For each work experience include: job title; series/grade (if Federal employment);

duties and accomplishments; employer's name and address; supervisor's name and address; starting and ending dates; hours per week; and salary. Please indicate if we may contact current supervisor/employer. Also indicate job-related: training courses (title and year), skills (e.g., other languages, typing speed, computer software/hardware, tools, etc.), and certificates/licenses. A one-page abstract of M.S. thesis and/or Ph.D. dissertation is needed. Please also include a list of: names, addresses, and phone numbers of persons familiar with the applicants stature, contributions, and recognition. Honors and awards, memberships in professional or honor societies, invitations to make presentations at scientific/technical meetings, scientific society office and committee assignments, presentations and publications should also be included.

Applicants will not be notified of the status of their application until a final selection has been made. Applications submitted via Government envelopes, Government FAX machines, or electronic mail will not be accepted. Applications must be postmarked by the closing date of the announcement. Special hiring authorities may apply to disabled individuals, former Peace Corps, Vista, action cooperatives, volunteers, VRA eligibles, and 30 percent disabled veterans. If applicants served on active duty in the United States military and were separated under honorable conditions, they may be eligible for veterans' preference. For further details, call the U.S. Office of Personnel Management (OPM) at 912-757-3000. Select "Federal Employment Topics" and then "Veterans." Or, dial OPM's electronic bulletin board at 912-757-3100.

For application forms, write to, visit or call: USDA, ARS, HRD, BAHQOB, 6305 Ivy Lane, Room 361, Greenbelt, MD 20770, 301-344-4638 (VACANCY ANNOUNCEMENT AND FORMS). Submit applications to: Address above. Dial-a-Vacancy: 301-344-2288. DC Relay Service: 202-855-1234 (TTY) For application information, contact: Adrienne Saunders 301-344-3954. The U.S. Department of Agriculture is an Equal Opportunity Employer. ð

## Microbiologist, USDA, Agricultural Research Service

The Parasite Biology and Epidemiology Laboratory of the Agricultural Research Service in Beltsville, Maryland has an opening for a Microbiologist. The incumbent will work with the Parasite Biology and Epidemiology Laboratory. Investigations in this laboratory are concerned with biological aspects of protozoan diseases of animals. The incumbent will be assigned to the *Toxoplasma* and *Neospora* research program and the biological diseases caused by them. The incumbent will systematically conduct immunological and molecular biological research studies related to control of toxoplasmosis and neosporosis. This includes *in vivo* and *in vitro* cultivation of *Toxoplasma gondii* and *Neospora caninum*; purification of parasites, examination of cellular and humoral immune responses, including cellular response T lymphocyte subset analysis, cytokine production in inbred and outbred pigs, interpretation of pathological changes in vaccinated and nonvaccinated pigs, and studying the immune response to *Neospora caninum* in mice and cattle.

Special requirements include a degree in Microbiology, Biology, Chemistry or Medical Science with course work in the areas of Microbiology, study of microorganisms, physical science, mathematical sciences or related disciplines appropriate to the position.

1) Knowledge of immunology and molecular biology; 2) Knowledge of the structure and biology of *Toxoplasma* and *Neospora*; and 3) Knowledge of protein separation to characterize antigens and antibodies are special requirements for this position.

For further information contact Robin Terry Mazyck, USDA/ARS, B305 Ivy Lane, Room 361, Greenbelt, Maryland 20770-1435, phone 301-344-0102. Submit applications to Dr. J.P. Dubey, USDA/ARS/LPSI, Building 200, BARC-East, 10300 Baltimore Avenue, Beltsville, Maryland 20705, phone 301-504-8128, FAX 301-504-5306.

## DATABASE INFORMATION

### AAVP is Now On-line

The AAVP Internet Presence Committee's initial effort at building the AAVP's World Wide Web site can be viewed at its temporary web address: <http://www.vetmed.ufl.edu/users/aaavp>. After reading the warning disclaimer that the site is under development and not yet ready for prime time, visitors can follow links to the various parts of the web site.

The AAVP Internet Presence Committee strongly encourages constructive criticism and suggestions from the membership. In particular please note how the meeting program can be displayed with abstracts. Is everyone comfortable having their abstracts made available on the Web in this manner?

Volunteers to help prepare parts of the web site are always welcomed, and the committee is happy to entertain ideas for new content, especially if the individual suggesting the new content is willing to provide it. We particularly need scanned images of parasites (must not be copyrighted by someone else) to make available on the web site. Likewise, if anyone wishes to volunteer lecture notes on any particular parasite, we can get them posted in several formats just like the newsletter. Interactive clinical cases are something else that we would like to make available. Any suggestions in that regard are especially welcomed.

We also would like to have blurbs written about the various parasites or parasite control programs for different hosts. Ideally, the articles should be in triplicate, written to 3 separate levels of understanding: 1. Suitable for the general public, 2. Suitable for veterinary students, 3. Suitable for graduate students and your colleagues. The same individual may not necessarily provide articles at all 3 levels for a given parasite or control program.

Also, if anyone knows of lecture notes, extension bulletins, image libraries (like the one maintained by Pete Pappas), electronic journals, etc., dealing with veterinary parasitology that is already out on the Web, please let Charlie

Courtney (chc@vetmed1.vetmed.ufl.edu) know so he can install links on our web site pointing to these resources. ð

### **International Virtual Conference on Animal Diseases**

The National Animal Diseases Center, Agricultural Research Service, United States Department of Agriculture, Ames Iowa is hosting/sponsoring the First International Virtual Conference on Infectious Diseases of Animals from April 20 to May 2, 1997 on the World Wide Web. The goal of this conference is to improve international collaboration and communication among researchers of animal diseases. Specific research subjects are the genetics, immunology, and pathogenesis of infectious diseases of animals as outlined in the Session Titles below. Topics related to animal product-associated human pathogens, pathogen epidemiology, diagnostic tests, and clinical studies, while important, lie outside the scope of this conference.

**Instructions to Authors:** 1. After reading Copyright information, submit via WWW an Abstract of your research. Abstracts were due on Feb 28, 1997. The abstract submission form is available on this page. Completing the form and clicking submit will deliver the completed form to the convener of the appropriate session, listed below. Submitter can author no more than two abstracts. For this Virtual Conference, we encourage both new abstracts and recently presented abstracts. However, we ask that you reference the meeting at which an abstract was previously delivered. 2. Abstract only: Indicate on the abstract submission form if you wish your presentation to be abstract only. If you choose abstract only, your abstract will be reviewed by session conveners and you will be notified of its acceptance by Mar 7, 1997. The abstract will then be displayed as a text file at the virtual conference meeting between April 20-May 2. Note: the form requires one of the authors of the abstract to have his/her E-mail address listed so that viewers can interact during the conference via E-mail for scientific communication and discussion. 3. Poster

Presentation: Indicate on the abstract submission form if you choose a poster presentation. If you choose poster, your abstract will be reviewed by the appropriate session convener and you will be notified of its acceptance. The deadline for final submission of posters is April 1, 1997. At that time you will be able to access a poster template through the NADC home page. On that template, you will enter text, tables, and figures that will enable your data to be easily incorporated into a standard poster format for the meeting. Note: the form requires one of the authors of the poster to have his/her E-mail address listed so that viewers of the poster will be able to ask questions by E-mail. The presenter further agrees to transmit both the visitor's questions and the presenter's own responses to the meeting so that both can be displayed beneath the poster presentation at the Web site. Thus, a poster presentation will involve a virtual interaction between the presenter and conference attendees. We are limited to 20 posters per session. If, due to large numbers of submissions, some posters cannot be presented, the submitted abstracts will be presented as described above.

**Copyright Information:** All presenters should be aware of certain copyright issues regarding information presented at this conference. The organizers cannot provide specific information for every journal and scientific society. The following guidelines are based on policy established by the American Society for Microbiology for its journals. (ASM editorial policy and definition of primary publication are available through Instructions to Authors in January issues of ASM journals or on ASM Home Page at <http://www.asmta.org>). ASM Guidelines: 1. Information or material on the World Wide Web is copyright protected. 2. The ASM considers that a scientific paper or its substance posted on a host computer to which there is access via Internet is unacceptable for submission to an ASM journal on grounds of prior publication. A preliminary disclosure of research findings published in abstract form (does not contain illustrations or tables) as an adjunct to a meeting, e.g. part of a

program, is not considered prior publication because it does not meet the criteria for a scientific paper. It is incumbent upon the author to acknowledge any prior publication of the data contained in a manuscript submitted to an ASM journal. A copy of the relevant work should accompany the paper.

Therefore, for the Virtual Conference:

A) Abstracts of research similar in appearance and length to abstracts submitted for ASM meetings can be displayed with no limitation on use of the information in a subsequent publication in ASM journals. B) A Poster presentation table or figure displayed on Internet can later be used (reproduced) by the author in an ASM journal article if acknowledgment is made in the article that the table or figure was used previously; a copy of the previous display is available, (A copy of the conference abstracts/poster presentations will be archived); and the author has provided to ASM written permission from the copyright owner to do so. C) A poster presentation resembling those given at the ASM annual meeting would constitute prior publication if given on the Internet for two reasons: It would constitute a substantial portion of a journal publication. It is freely accessible for copying and downloading (unlike posters at meetings). Thus, this format would not be acceptable for publication by the ASM.

Preliminary Program -- Titles / Conveners:  
Session A. Mechanisms of Infection of Bacterial Respiratory Diseases of Ruminants. Conveners: Kim Brogden, Louisa Tabatabai. Session B. Molecular Biology and Pathogenesis of Enteric, Respiratory, and Reproductive Viral Diseases of Cattle and Swine. Conveners: Julia Ridpath, John Neill, Andy Cheung, Howard Lehmkuhl, Roger Woods. Session C. Transmissible Spongiform Encephalopathies: Pathogenesis and Diagnosis. Convener: Mary Jo Schmerr. Session D. Immunology, Pathology, and Genetics of Mycobacteria in Food Animals. Convener: Judith Stabel. Session E. Pathogenesis of *Escherichia coli* infections in Cattle and Swine. Conveners: Tom Casey, Brad Bosworth. Session F. Pathogenesis, Transmission, and Control of Salmonellosis in

Cattle and Swine. Conveners: Tom Stabel, Paula Cray. Session G. Veterinary Immunology of Food Animals. Conveners: Marcus Kehrli, Jim Harp. Session H. Molecular Aspects of *Brucella* Infections of Animals. Convener: Shirley Halling. Session I. Spirochete Diseases of Cattle, Swine, and Avian Species: Swine Dysentery, Intestinal Spirochetosis, Leptospirosis, Hairy Footwart. Conveners: Jesse Goff, Neil Jensen, Thad Stanton, Rich Zuerner.

Feb 28, 1997 is the deadline for receipt of abstracts. On Mar 7, 1997 applicants will be notified of acceptance. April 1, 1997 is the deadline for receipt of poster presentations. April 11, 1997 is the submitter preview and April 20 - May 2, 1997 is the general public viewing. Please read author's instructions and copyright information before submitting abstracts.

For information about this conference send E-mail to [virtconf@nadc.ars.usda.gov](mailto:virtconf@nadc.ars.usda.gov). *Conference Organizers are Thad Stanton, Neil Jensen and Rich Zuerner.* ☺

## FUTURE MEETINGS

### **World Association for the Advancement of Veterinary Parasitology**

World Association for the Advancement of Veterinary Parasitology will hold its 16th International Conference in Sun City, South Africa 10-15 August 1997.

The Parasitological Society of Southern Africa, the host organization, is proud to invite veterinary parasitologists from all over the world to attend the first ever WAAVP International Conference on the African continent. Theme: Veterinary Parasitology into the 21st Century. The theme is two-pronged, as reflected in the logo. In the developed nations the current emphasis is very much on hi-tech aspects. The conference will be an ideal time to assess progress and state expectations in this field as we enter the 21st century. Much of this technology can be implemented in developing nations, but financial constraints often dictate that alternative control strategies are adopted. The proposed subthemes are: Hi-tech: development of novel vaccines,

application of molecular biology in veterinary parasitology, immunology and host-parasite interactions, alternatives to animal experimentation in parasitology, new systems for animal maintenance, remote scanning and satellite surveillance, developing countries: sustainable parasite control strategies, socio-economic impact of parasitic disease, managing parasitic disease in developing countries, ticks and tick-borne disease control, and parasites of working animals. These subthemes will be addressed in plenary papers, submitted papers, workshops and poster sessions.

Other workshops may include: antiparasitic testing guidelines; teaching of veterinary parasitology; resistance to parasiticides; wildlife parasitology; and control of nematode growth and development.

### **XVIII Symposium of the Scandinavian Society for Parasitology, 2nd Announcement**

The Scandinavian Society for Parasitology will have a symposium in Ronne \* Bornholm \* Denmark on 22 - 24 May 1997. General topics will include: vaccines, gene technology, fish parasitology, zoonotic parasites, human parasitology, parasites in wild fauna, veterinary parasitology, host-parasite relationships, parasites and the allergic response, immune responses to parasites, ectoparasites and vector biology, drug development and resistance, nutritional aspects of parasite infection, and opportunistic parasites in immuno-compromised hosts. There will be a special mini symposium on Human and Veterinary Tropical Parasitology. For information please

contact the Symposium Secretariat: Danish Bilharziasis Laboratory, Jaegersborg Alle 1 D, DK-2920 Charlottenlund. att.: Symposium Bornholm Denmark, phone: +45 39 62 61 68, fax: +45 39 62 61 21. ø

### **Future Meetings of the AAVP**

1997 - July, Reno, Nevada  
 1998 - July, Baltimore, Maryland  
 1999 - July, New Orleans  
 2000 - Salt Lake City, Utah

### **Enclosures**

1. Application and instructions for AAVP Student Travel Grant (page 11-12) - Return to Dr. Daniel E. Snyder at the address indicated.
2. Guidelines for AAVP awards (Page 12).
3. AAVP Election Ballot for 1996 (Page 15) - Return ballots to Dr. Tom Craig in the envelope provided.
4. AAVP Membership application form, p. 17.

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

<u>Newsletter</u>	<u>Deadline</u>
June, 1997	May 20, 1997
October, 1997	September 20, 1997
February, 1998	January 20, 1998

Submissions for the AAVP Newsletter are welcome from all members. Please contact the editor with questions regarding these dates at [Mansfield@ahdlms.cvm.msu.edu](mailto:Mansfield@ahdlms.cvm.msu.edu).



## Guidelines for AAVP Awards

### Instructions for Application for AAVP Student Travel Grant

1. Applicants must be full-time DVM or graduate students enrolled in an accredited institution of higher learning.
2. Only a student presenting a paper or poster at the annual meeting of the American Association of Veterinary Parasitologists (AAVP) is eligible to apply for a student travel grant (STG).
3. STG funds must be applied to travel to the AAVP meeting held during the year in which the application was made.
4. The applicant must be sponsored by an active, full member of the AAVP. The sponsor's signature is required on the application.
5. A STG will be awarded only when funds equal to the amount requested from AAVP are available from another source (s) for support of applicant's travel. The source (s) of matching funds and the signature of the person authorized to commit funds are required on the STG application.
6. The total amount of STG funds requested by an applicant in a single year will be matched by AAVP up to a maximum of and may not exceed \$500.00.
7. An estimate of the total cost of travel to and from the AAVP meeting must be provided on the STG application.
8. The total number of STG's to be awarded each year will depend on the availability of funds, number of applicants and location of the meeting.
9. The completed application form with all necessary signatures, the one page letter of support from the student's faculty sponsor/major professor, and the abstract of the student's paper/poster must be sent to the Chair of the Awards Committee, Dr. Daniel E. Snyder, Chair, AAVP Awards Committee, ELANCO Animal Health Research and Development, Mail Drop GL18, 2001 West Main Street, P.O. Box 708, Greenfield, Indiana 46140, Phone: 317-277-4439, Fax: 317-277-4532; E-mail: Snyder- Daniel-E@Lilly.Com.
10. Selection of awardees from applicants fulfilling all of the above-mentioned requirements will be judged primarily on two criteria: (1) the written and apparent scientific quality of the abstract; and (2) a one-page supporting letter from the student's sponsor/ major professor explaining and documenting the significance of the research to be reported by the student and indicating why the student is deserving of this award.

## **Distinguished Veterinary Parasitologist Award**

**Origin** - This award was established to recognize outstanding contribution to the advancement of Veterinary Parasitology.

**Criteria for Nomination** - This is an award that honors contributions to veterinary parasitology that are widely recognized internationally as significant and important to the understanding and control of parasitic diseases of animals.

**Procedure for Nomination** - Solicitation of nominations for the award will be announced annually in the Society Newsletter. Any member of the Society may nominate a candidate by forwarding a letter of nomination describing the candidates worthiness for the award and a copy of their CV to the Chair of the Awards Committee. The nominator should arrange for **3** letters to be written in support of the nomination by members of the Society and sent to the Chair of the Awards Committee. Only 3 letters of support will be considered by the Awards Committee. To expedite the process and to ensure that all of the letters of support arrive prior to the April 1st deadline, it is recommended that the nominator assemble the entire packet of information in support of the nominee, including the **3** letters, and send everything in one mailing to the Chair of the Awards Committee.

**Selection** - All documents provided in nomination of the candidate will be forwarded to all members of the Awards Committee. The selection of a recipient will be made by written ballot based on evidence of the nominee's contribution to the advancement of veterinary parasitology.

**The Award** - The recipient will be honored at the annual meeting of the Society and will receive a plaque and a \$1500 monetary award provided by Pfizer Animal Health. The Society will provide reimbursement of expenses necessary for the recipient to attend the society's annual meeting.

## **Distinguished Service Award**

**Origin** - This award was established to recognize long terms of clearly extraordinary service and commitment to the Society.

**Criteria for Nomination** -

1. The nominee shall be a member in good standing of the Society.
2. Nomination of candidates for whom service to the Society is conducted normally or routinely, such as those involved in holding an office in the Society, will not be accepted.

**Procedure for Nomination** - Solicitation of nominations for the award will be announced annually in the Society Newsletter. Any member of the Society may nominate a member by forwarding a letter of nomination to the Chair of the Awards Committee describing the candidate's service to the Society. The nominator should arrange for 3 letters to be written in support of the nomination by members of the Society and sent to the Chair of the Awards Committee.

**Selection** - All documents provided in nomination of the candidate will be forwarded to all members of the Awards Committee. The selection of a recipient will be made by written ballot based on evidence of the nominee's level of service and long term commitment to the Society.

**The Award** - The award consists of an engraved plaque specifically recognizing the awardee for their extraordinary service to the Society. The Society will provide reimbursement of expenses necessary for the recipient to attend the Society's annual meeting.

### **AAVP Hoechst Roussel Vet Graduate Student Award**

**Origin** - The Award is intended to provide recognition of outstanding performance in graduate study in veterinary parasitology.

#### **Criteria for Nomination -**

1. Nominations are limited to graduate students enrolled in or those who have completed their MS or Ph.D. degree within the previous 12 months.
2. The award is made based only on research carried out during a student's graduate (M.S. or Ph.D.) program at a **U.S. University**.
3. Nominees **must be** enrolled or have received their degree from a **U.S. University** at the time the award is given.
4. The student's graduate program **must be** in veterinary parasitology.

**Procedure for Nomination** - Solicitation of nominations for the award will be announced annually in the Society Newsletter. Any member of the Society may nominate a student by forwarding a nomination to the Chair of the Awards Committee.

1. A letter of nomination describing the candidate's excellence in graduate studies and research.
2. A copy of the student's curriculum vitae.
3. Reprints of pertinent publications as a result of the student's graduate research.
4. Arrange for **3** letters to be written in support of the nomination by members of the Society. Only 3 letters of support will be considered by the Awards Committee. In the case where the nominator is not the candidate's graduate supervisor, one of the letters of support must be obtained from the candidate's graduate supervisor. To expedite the process and to ensure that all of the letters of support arrive prior to the April 1st deadline, it is recommended that the nominator assemble the entire packet of information in support of the nominee, including the **3** letters, and send everything in one mailing to the Chair of the Awards Committee.

**Selection** - All documents provided in nomination of the candidates will be forwarded to all members of the Awards Committee. The selection of a recipient will be made by written ballot based on evidence of excellence in graduate course work, graduate research, and graduate research publications.

**The Award** - the award consists of reimbursement by the Society of expenses necessary for the recipient to attend the Society's annual meeting, an engraved plaque, and a monetary award of \$1000 provided by Hoechst Roussel Vet.

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**Election Ballot**

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**Official Ballot - American Association of Veterinary Parasitologists**

**Nominees for Vice President: Vote for One**

Robert Rew  
Sidney Ewing

**Candidates for 2 members of the Nomination Committee: Vote for Two**

Dolores Hill  
Charles Courtney  
Gary Conboy  
George Conder  
David Lindsay

**Please vote for the indicated number of candidates and return ballot in envelope to:**

**Dr. Tom Craig  
Texas A&M University  
Department of Veterinary Pathobiology  
College of Veterinary Medicine  
College Station, Texas 77843-4467**

Submitted by Tom Craig. ð

## Biographies of Candidates for Vice President

**Robert S. Rew**: Managing Technical Services, Parasitologist, Pfizer Animal Health, Exton, Pennsylvania 19341; born 1943, Pendleton, Oregon, Married.

Education: BS, Biology, Whitman College, 1966; MS Zoology, Washington State University, 1968; ScD, Pharmacology/Cell Biology, Johns Hopkins Medical Institute, 1972; NIH Postdoctoral Fellow, Biochemistry, Notre Dame University, 1972-76.

Professional Experience: USDA, Helminthic Diseases Laboratory, Beltsville, MD, Research Microbiologist/Lab Chief, 1976-82; Merck Institute, Senior Research Fellow, 1982-86; CSIRO, Sydney, Australia, Visiting Scientist, 1983-84; SmithKline Beecham Animal Health, Manager, Parasitology, 1986-90; Pfizer Animal Health, Associate Director Product Development, 1990-96.

Activities: Adjunct Professor, University of Pennsylvania School of Veterinary Medicine, 1986- present; President of Rew Ranches, Inc., 1990 - present.

Member: AAVP, ASP, NJ Soc Parasitol, Helminth Soc of Wash, WAAVP.

Research: Helminth biochemistry, pharmacology, and anthelmintic discovery and development.

**Sidney A. Ewing**: Wendell H. and Nellie G. Krull, Professor of Veterinary Parasitology, Oklahoma State University, Stillwater, OK 74078. Born, 1934, Emory University, GA; Married.

Education: Univ. Georgia, BSA and DVM, 1958; Univ. Wisconsin, MS, 1960; Oklahoma State University, Ph.D. (Veterinary Parasitology), 1964.

Professional Experience: Assistant Veterinary Science, Univ. Wisconsin, 1958-60; Instructor Veterinary Parasitology, Oklahoma State University, 1960-61; Assistant Professor, 1961-61; Associate Professor Veterinary Parasitology and Public Health, 1964-65; Associate Professor Veterinary Pathology, Parasitology and Public Health, Kansas State University, 1965-67; Professor Veterinary Science and Head, Department, Mississippi State University, 1967-68; Professor Veterinary Parasitology and Public Health and Head, Department, Oklahoma State University, 1968-72; Professor and Dean College of Veterinary Medicine, University of Minnesota, St. Paul, 1972-78.

Concurrent Positions: Member Advisory Board, Morris Animal Foundation, 1967-69; Consultant 1969-78; Member Committee on Animal Health, National Research Council-National Academy Science, 1971-75; Member Advisory Panel Veterinary Medicine, US Pharmacopeial Committee Review, 1980-95; Conference Research Workers Animal Disease, 1980-85; Vice President, 1983-84, President, 1984-85; Member Advisory Board, American Council of Science and Health.

Member: Am Vet Med Assoc.; Am Soc. Vet Parasitol; Am Soc. Parasitol; Sigma Xi.

Research: Swine lungworms; canine babesiosis, canine rickettsiosis, anaplasmosis, zoonotic potential of ehrlichiosis.

# AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS

## 1997 MEMBERSHIP RENEWAL

Please consider this letter as notice for the payment of dues to the AAVP for 1997. Please complete the form 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) Make check payable to the American Association of Veterinary Parasitologists (AAVP).**

**Return to: Dr. Tom Kennedy, Secretary/ Treasurer, AAVP  
c/o Mallinckrodt Veterinary, Inc.  
421 East Hawley Street  
Mundelein, IL 60060**

**(847) 970-4514 Fax (847) 970-4560**

**The American Association of Veterinary Parasitologists**

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