AAVP Newsletter

American Association of Veterinary Parasitologists

June, 1999 **Volume 21, Number 2**

From the President

Dear AAVP Member

I wanted to take this opportunity to encourage you to attend the Annual meeting in New Orleans on July 10-13. Tom Kennedy has done a wonderful job organizing a meeting that will keep everyone busy for the four days. Tom has taken 122 papers and organized them into a cohesive meeting that will provide important scientific information to all interested in Veterinary Parasitology. Plan to get there early Saturday, and stay through Tuesday morning's symposium to get the maximal scientific return. In addition, Bayer and Pfizer will host receptions on Saturday and Sunday evenings that will offer the opportunity for the cordial, informal interaction for which AAVP is so well-known. If all that isn't enough to get you to the meeting, there is the fabulous city of New Orleans to see and savor. Whether your tastes lie in the areas of music, food, architecture, or just having a good time, New Orleans offers something for everyone. As we come to the end of another year for AAVP, I want to thank you all for making AAVP the vibrant interactive society it is. I especially want to thank Bert Stromberg for his work in establishing the AAVP list serve. Although, there were some early problems with list serve etiquette, the AAVP list serve should be a valuable resource to our members in the future. It is a means by which we can rapidly disseminate to and acquire knowledge from the membership. This is not to say that you won't occasionally receive a reply that should have gone only to the original sender but instead was sent to all subscribers. Hopefully, these minor errors in etiquette will be greatly overshadowed by the positive aspects of the list serve. We put everyone who gave us an E-mail address as part of their AAVP directory listing on the list serve. If you are not on it, and wish to be, please send Dan Snyder an E-mail address so that you can be included. We still have some other issues to address before the meeting, and with your help over the next month we can hopefully accomplish some other significant goals. Remember the AAVP Business meeting is Monday July 12 at 1:30 PM. Make sure you come, and bring with you any concerns and ideas you may have. See you all in New Orleans. Lou Gasbarre, President, AAVP.

From The Secretary-Treasurer

The 44th Annual Meeting of the AAVP is fast approaching. As of May 25 almost 125 people have pre-registered for the meeting. All of the AAVP functions except Sunday night's Social sponsored by Pfizer and the President's AVMA/AAVP joint symposium will be held in the Hotel Inter-Continental. Tom Kennedy has assembled a very large and exciting scientific program with about 121

CONTENTS

From the President ____ ***1***

From The Secretary-Treasurer ____ ***1***

Recognition for 1998 AAVP Awards Winners ____ ***2***

Nominations Committee Report ____ ***3***

Database Information ____ ***3***

Future Meetings ____ ***4***

Future Meetings of the AAVP ____ ***6***

1999 AAVP Meeting Program ____ ***7***

AAVP Committees ____ ***17***

abstracts which kicks off at 3:00 PM on Saturday and ends at noon on Tuesday with Lou Gasbarre's President's Symposium on Equine Parasitism. Saturday evening we will have a Welcoming social sponsored by Bayer and on Sunday evening a Social sponsored by Pfizer after their symposium. The Sunday evening Pfizer sponsored social will be a boat cruise on the Mississippi River. Monday evening this year is an open evening and intended for everyone in attendance to enjoy and explore the sites, sounds and foods of New Orleans. A listing of the Program titles, times and room locations are listed elsewhere in the Newsletter. In early June, I sent a postcard to those members who pre-registered. This card will serve as your receipt and evidence of registration. Please bring the card to the meeting as your evidence of registration. The onsite staff in New Orleans will provide you with pre-printed name badges, the Proceedings book and other meeting materials starting at 2 PM on Saturday. Please contact me if you have any questions about your pre-registration. For those who did not pre-register, a table will be set up outside the meeting rooms on Saturday. You can start to register on site at 2 PM Saturday and all day Sunday. At the registration table will be several items related to the meeting including the membership dues list (check to see if your dues are current; if not please consider paying at the meeting), the membership mailing list (confirm that I have your correct mailing address, phone, fax and email numbers) and a list of AAVP committees for those who would like to volunteer. If you did not get a reservation in the Hotel Inter-Continental, the AVMA will run a shuttle service between the various hotels and the Convention Center, which we are free to use. For those who are unable to attend the New Orleans meeting, the Proceedings book will be mailed to you after the meeting. Hope to see you in New Orleans. *Submitted by Dan Snyder, Secretary-Treasurer, AAVP. Phone: 317/277-4439; fax: 317/277-4532; email: snyder_daniel_e@Lilly.com*

Recognition for 1998 and 1999 AAVP Award Winners

Recognition of 1999 AAVP Award Winners

The 1999 AAVP Award winners are selected and will be recognized at the annual meeting in New Orleans! Congratulations go to the 1999 AAVP Distinguished Parasitologist Award winner Dr. Roger K. Prichard from McGill University, Quebec, Canada. The AAVP Hoechst Roussel Veterinary Parasitology Graduate Student Award will be presented to John S. Mathew from University of Oklahoma, who was nominated by Dr. Sidney Ewing. Student travel grants will be awarded to Catherine P. Walsh, Virginia Tech, nominated by Dr. David Lindsay, Mark Werda, Northern Michigan University, nominated by Dr. Jacqueline Bird, Merijo Jordan, University of Florida, nominated by Dr. Charles Courtney, Stephen R. Werre, Cornell University, nominated by Dr. Dwight Bowman, Mark A. Cheadle, University of Florida, nominated by Dr. Charles Courtney, Jacqueline Hoevers, Texas A & M, nominated by Dr. Karen Snowden, Casey E. Barton, Texas A & M, nominated by Dr. Karen Snowden, Brenda Ralston, University of Calgary, nominated by Dr. Merle Olson, Ryan O' Handley, University of Calgary, nominated by Dr. Merle Olson, Kevin Garossino, University of Calgary, nominated by Dr. Merle Olson, Satomi Kato, Cornell University, nominated by Dr. Dwight Bowman, Jennifer K. Ketzis, Cornell University, nominated by Dr. Dwight Bowman, and Douglas E. Hutchens, University of Illinois, nominated by Dr. Al Paul. There were no nominations this year for the AAVP Service Award. Please join the Society in recognizing the achievements of these individuals at this years meeting! *Submitted by Terry Skogerbe.*

Recognition of 1998 AAVP Award Winners

Recently, a comment was shared with AAVP officers regarding recognition of AAVP award winners. Comment: "I have noticed for several years the lack of publicity for AAVP award winners, especially the Distinguished Parasitologist Award. It is hard to get media attention unless there is

something newsworthy, but this award has some real interest features, i.e., research impact, industrial prize, etc. Perhaps the winner should be pre-announced in the Program and the AVMA media office notified. This would attract media attention for AAVP throughout the convention. In addition, the AAVP Newsletter should feature an article in the Newsletter. The lack of attention within AAVP is something of a disappointment to the recipients, but the wider attention would also be good for AAVP." Thanks go to the individual that submitted this comment for pointing out that award winners have not been given enough recognition for their hard work and achievements. A short report was included in the February 1999 issue of the AAVP Newsletter announcing winners of awards in 1998. However, it is reprinted to ensure that we have the opportunity to recognize the high achievements of these parasitologists.

The awards committee selected the following individuals for awards in 1998. These awards were presented at the 1998 AAVP business meeting. Seven Student Travel Grants were awarded in 1998. These included awards to Alexandra Baudena of Louisiana State University (advisor Tom Klei), a second year award to Jaap Boes of the Danish Center for Experimental Parasitology, Denmark (advisor Peter Nansen), Brenda Ralston-Chalmers of the University of Calgary (advisor M.E. Olson), a second year award to Nicole Guselle of the University of Calgary (advisor M.E. Olson), Doug Hutchens of the University of Illinois (advisor Al Paul/Carl Jones), John Shiens Mathew of the Oklahoma State University (advisor Sid Ewing), and Maria T. Pena of Louisiana State University (advisor Jim Miller). There was an 8th travel grant submitted, but this student won the Graduate Student Award.

Hoechst-Roussel Vet Graduate Student Award: The committee selected Ryan O'Handley Ph.D. graduate student at the University of Calgary (Nominated by M.E. Olson).

The AAVP Distinguished Veterinary Parasitologist Award (sponsored by Pfizer Animal Health) was awarded to Dr. Ralph Lichtenfels of the Agricultural Research Service of the United States Department of Agriculture, Beltsville, Maryland. No nominations were received for the Distinguished Service Award in 1998.
Respectively submitted, Daniel E. Snyder, 1998 Chair, AAVP Awards Committee. Committee Members: Bob Arther, Joan Lunney, Charles McKenzie, Mukund Parkhie, Terry Skogerboe, Ann Zajac. ð

Nominations Committee Report

AAVP Election Results

The results of this year's AAVP election are in and will be announced at the annual meeting in New Orleans. Nominations for a new Vice President and 2 new members of the Nominating Committee have been voted on by the membership and will be announced at that time. I wish to thank all AAVP members who sent in their ballots, and the other members of the Nominating Committee, Drs. Fayer, Klei, Lindsay, Mansfield and Marciondo for their work on this year's election. *Submitted by George Conder*. ð

Database Information

AAVP List Serve

Dear AAVP Members, I want to welcome you all to the AAVP email list serve. Through the efforts of Bert Stromberg we have established a list serve to provide our membership a means for rapid communication between members and with the society. Anything sent to the list serve address will automatically go out to over 300 members of AAVP. We have taken the liberty of placing into the list serve all AAVP members who have given an email address to Dan Snyder. If you do not want to receive materials from the list serve simply unsubscribe following the directions sent when you were enrolled. If you have a problem call or email Bert Stromberg, as he has graciously volunteered to run the list serve at least for a time being. Thanks from all of us Bert!!!

If you are not familiar with list serves they came be very useful. If you want to send a message to the membership, e.g. a question about a parasite for teaching, simply sending the

message to the list serve address will get it to all subscribers. A word of caution, be careful in replies, because if you reply via the list serve it also goes out to over 300 people. You can reply either by a direct reply to the list serve (over 300 recipients) or you can reply by email or phone directly to the sender. Similarly, do not use the list serve as an email to a particular person unless you want to involve many other people. Used properly the list serve can be a tremendously powerful tool for information dissemination, for open discussions, and as an educational tool. I hope you look on this endeavor as another perk of AAVP membership. *Submitted by Lou Gasbarre.*

Notes on Using the AAVP ListServ

Since the AAVP List Serve was established, the AAVP membership has used it successfully to disseminate information to the Society on several topics. It will provide an extremely useful means of dealing with issues that need to be considered by the entire membership in a timely fashion. Members who wish to be added to the list may do so by sending their email address to Dan Snyder, Secretary-Treasurer, AAVP, Phone: 317/277-4439, fax: 317/277-4532, email: snyder_daniel_e @Lilly.com. Members who wish to be removed from the list should send an email to that effect to me (Bert Stromberg) at b-stro@maroon.umn.edu. Finally, here is a reminder about the etiquette of using the listserv. It is not good form to respond directly to the listserv message. When you simply hit the reply key for your email program, your response is sent back to the listserv and distributed to ALL members on the list. You should respond directly to the individual sending the message. Using our AAVP-LIST will be a learning process for many of us and we should begin to practice good listserv etiquette. Our goal is to be informative and not to become overwhelming with the number of messages. This will ensure that our members will not have to withdraw from the list due to an overwhelming number of nuisance messages. *Submitted by Bert Stromberg.*

Conference of Research Workers on Animal Disease (CRWAD) Website

Dear CRWAD Members, the 1999 Newsletter is published on our home page. The URL for the CRWAD home page is as follows: http://www.cvmbs.colostate.edu/microbiology/crwad/crwad.htm. I hope you find the site informative. *Submitted by Robert P. Ellis.*ð

1998 AAVP Program on the Web

Last summer's AAVP Program is now up on the AAVP website. The text of all of the 1998 abstracts is included in the site. In the future, check this site for the 1999 abstracts. The address is http://www.vetmed.ufl.edu/aavp/Meetings.htm. *Submitted by Charles Courtney.*

Future Meetings

International Symposium, Animal and Zoonotic Diseases:Lessons Learned and Strategies for Meeting Current and Future Threats

An international symposium on animal and zoonotic diseases will be held at Monona Terrace, Madison, Wisconsin on June 20-23, 1999. A web site describes this meeting: www.vetmed.wisc.edu/ pbs/courses/ zoonotic.html. The contact person is: Dr. Yoshihiro Kawaoka, Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, 2015 Linden Drive West, Madison, WI 53706, Kawaokay@svm.vetmed.wisc.edu.

First Anounncement: IV International Seminar in Animal Parasitology, "Control of Tick and Fly Resistance and Tickborne Diseases"

This is the first announcement of the IV International Seminar on Animal Parasitology with special reference to tick and fly resistance. The event will be held in Puerto Vallarta, Jalisco, México on October, 20-22, 1999. Organizing institutions include Sagar, Inifarvet, and Ampave.

Objectives – To analyze the current situation in field research and policies on control of tick and fly resistance to pesticides, as well as, tick borne diseases such as bovine babesiosis and

anaplasmosis; To discuss national and international policies regarding these topics in order to make recommendations for field work and research.

Introduction - The tick and fly resistance and tick borne diseases bovine babesiosis and anaplasmosis have been discussed in several meetings around the world. However, controversy remains regarding the different approaches to control these problems in different countries. For this reason it is important to update the recent advances in these fields. This is the main purpose of the IV International Seminar on Animal Parasitology. The Scientific program will cover basic and applied research. Invited plenary papers of 45 minutes will proceed the scientific workshop. Contributed papers will be allowed 10 minutes with additional 5 minutes for discussion. Experts from México, U.S.A, Australia, Germany and other countries will be invited to present plenary talks.

Instructions for Submission of Abstracts - The deadline for receipt of abstracts for contributed papers is August 30, 1999. The abstract should be constructed in accordance with Authors Instructions in Advances in Parasitology and sent to the Organizing Committee in México. The abstract should be structured to contain a brief introduction, objectives, description of the study design, a summary of results and conclusions. The abstract should not exceed 350 words, typed in lower case in single spacing. Figures, tables and references should not be included. The paper must be sent as one printed copy and a diskette 3.5" in win-word version 6.0. Final full length manuscripts that are accepted will be included in the proceedings which will be made available to registered participants.

Scientific Program – A) Actual situation of tick and fly resistance in the world. 2) Global situation, 3) Origin and evolution of resistance, 4) Socioeconomic aspects of tick and fly resistance control, 6) National programs for control resistance to pesticides in the livestock industry (México, U.S.A, Australia, Colombia, Brazil, Central America), 7) Diagnostic tests for resistance to pesticides, 8) Present and future of the diagnostic tests for resistance, 9) Molecular biology of resistance and its application in diagnosis of resistance, 10) Bioassay and its use in surveys in ticks and flies, 11) Strategic control and integrated control management of ectoparasites, 12) Use of tick vaccines in field situations, 13) Biological control of ticks and flies, 14) New products and formulations of ixodicides.

B) Babesiosis and Anaplasmosis. 1) Perspectives on molecular biology for hemoparasite control, 2) Genetic markers associated with virulence, 3) Immunization against bovine babesiosis and anaplasmosis, 4) Filed experience with *Babesia* and *Anaplasma* vaccines, 5) Epidemiology of hemoparasites.

The cost of the seminar will be $100.00 U.S. dollars that includes proceedings and social events. Lodging and food expenses will be covered by the participants. For further information contact the Organizing Committee: Hugo Fragoso Sánchez, Zeferino García Vázquez, Alberto González Cossio, Phones (73) 19-02-02, 19-28-48, 19-28-50, Faxes (73) 20-55-44, and 20-43-62, E-mail: Hugo Fragoso: HIPERVÍNCULO mail to: nelug@mpsnet. com.mx, nelug@mpsnet. com.mx, Zeferino Garcia: garciaz.@inifap2. inifap.conacyt.mx. *Submitted by Adalberto A. Pérez de León, M.S., Ph.D.*

Ag Microbial Genome

Based on feedback from participants and organizers of the Plant and Animal Genome (PAG) conference series, it has been decided to have a separate meeting for the growing area of Agricultural Microbial Genome Research beginning in January, 2000. The Ag Microbial Genome Meeting will be held in San Diego, CA on January 13 and 14, 2000. The Ag Microbial Genome Meeting will consist of lecture sessions and one (1) poster session. The lecture session topics will be Technology & Bioinformatics, Sequencing, and Functional Genomics/ Applications. Further details about the meeting will be available on the meeting web site: http://www.ag-microbial.org/agm. The web site is

currently operational, but not complete, and the poster abstract submission forms should be operational by early fall of 1999. I am serving as a member of the organizing committee for this meeting and would be happy to receive suggestions for speakers for the meeting and for other ideas for this meeting. *Submitted by Joan Lunney.* Contact Information: 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.

XIV Latin American Congress of Parasitology (Federación Latinoamericana de Parasitologia)

The Latin American Federation of Parasitology has chosen Mexico as the host country for the XIV Latin American Congress of Parasitology in 1999. The program covers a wide range of recent issues and important parasites of interest to parasitologists from many disciplines. The deadline for abstracts is August 15, 1999. Information about the meeting and abstract forms are available from Dr. Raul Romero Cabello, Presidente, Av. San Francisco Culhuacan 301 Col. Presidentes, Coyoacan Mexico 04470, D.F., Mexico Tel. (52-5)5761-9951 – 5656-3840; FAX, (52-5)5656-0732; email flaprrc@df1.telmex.net.mx

Future Meetings of the AAVP

1999 - July, New Orleans
2000 - Salt Lake City, Utah
2001 – Boston, Massachusetts
2002 – Nashville, Tennessee
2003 – Denver, Colorado

1999 AAVP MEETING PROGRAM

Saturday, July 10, 1999

11:00-2:30 **AAVP Board Meeting**
Poydras Room

2:00-7:00 **Registration**
LaSalle Ballroom Lobby

3:00-3:15 **Opening Remarks**
Room: LaSalle A
President: LC Gasbarre
Vice President & Program Chairman: TJ Kennedy

Session I **Room: LaSalle A**
MERIAL SECOND ANNUAL SYMPOSIUM
Modulation of the Immune Response by Parasites
Moderator: J Guerrero

3:15 1 Immune Response to Vaccination. Jennifer Rice Conlon

3:50 2 Arthropods as Modulators of the Immune Response. Stephen K. Wikel

4:25 3 Gastrointestinal Nematode Parasites as Modulators of the Immune Response. Joseph F. Urban, Jr.

5:00-5:15 BREAK

Session II **Room: LaSalle A**
Topic: Companion Animal Parasites
Moderators: B. Blagburn, A. Donoghue

5:15 4 Efficacy of Nitenpyram Flavored Tablets for Rapid Removal of Adult Cat Fleas, *Ctenocephalides felis*, on Cats. B.L. Blagburn, J.L. Vaughn, J.M. Butler, R. Schenker

5:30 5 Control of Fleas on Pets and in Homes Using Lufenuron and Nitenpyram. M. W. Dryden, T. Maggid, S. Bunch, R. Schenker

5:45 6 Killing Effect of Amitraz or Deltamethrin Based Collars Against the Brown Dog Tick. Agustin Estrada-Pena, Frederic Ascher

6:00 7 Antifixing + Feeding Effects of Amitraz or Deltamethrin Based Collars Against the Brown Dog Tick. Augustin Estrada-Pena, Frederic Ascher

6:15 8 Experimental Transfer of the Nasal Mite, *Pneumonyssoides caninum*, in Dogs. L. Gunnarsson, G. Zakrisson, D. Christensson, C. Rehbinder, A. Uggla

6:30 9 The Effect of Preventive on Anti-*Dirofilaria immitis* Antibodies in Cats Receiving Trickle Infections with *D. immitis.* A.R. Donoghue, C.A. Piche, S.V. Radecki, L.E. Schaad, L. Venco, G.R. Frank

6:45 10 Clinical Efficacy of the Association of Melarsomine Dihydrochloride and Ivermectin in Dogs with Moderate to Severe Heartworm Disease. N. Labarthe, S. Menezes

Saturday, July 10, 1999 continued

7:00 11 Anthelmintic Activity of *Bacillus thuringensis* to Adult *Haemonchus contortus* in Goats. Yao Baoan, Wang Xiang, Xia Xueshan, Zhao Junlong, Ma Lihua, Sun Ming, Yu Ziuiu

7:30 - 9:00 BAYER WELCOMING RECEPTION Room: LaSalle A

Session III Room: LaSalle B&C
Topic: Protozoology Lab Techniques
Moderators: D. Bowman, A. Gadjahar

5:15 12 Kinetics and a Single Read ELISA for Ovine Toxoplasmosis: Assay Validation with Analysis of Effects of Component Variation. S.R. Werre, H.O. Mohammed, R.H. Jacobson, D.D. Bowman

5:30 13 Efficacy of Doramectin Against Trichostrongylid Parasites of Goats in East Tennessee. C.T. Faulkner, C.S. Mayes, S. Patton

5:45 14 Experimental Studies on the Susceptibility of Several Species of Animals to *Elaphostrongylus cervi* and *Parelaphostrongylus tenuis*. A. Gajahar, S. Tessaro, B. Scandrett, D. Ogunremi, M. Lankester, L. Forbes

6:00 15 The Anthelmintic Potential of *Chenopodium ambrosioides* in Goats. J.K. Ketzis, D.D. Bowman

6:15 16 Development of a Coproantigen ELISA Test for the Diagnosis of *Ostertagia* sp. Infections in Farmed Red Deer. T. Qureshi, C. Santrich, R.E. Labes, M. Taylor, M.L. Cross, C.G. MacKintosh

6:30 17 A Two Year Study Evaluating the Persistent Efficacy of Doramectin in Sheep. B.E. Stromberg, G.A. Averbeck, B.W. Woodward, C.J. Christians

6:45 18 Trichostrongyle Infection in Kathadin Lambs and Spanish Kids in Virginia. A.M. Zajac, S. Wildeus

7:30 - 9:00 BAYER WELCOMING RECEPTION
Room: LaSalle A

Sunday, July 11, 1999

Session IV Room: LaSalle A
Topic: Protozoology Lab Techniques
Moderators: S. Barr, S. Little

8:00 19 Partial Characterization of Serine Protease Activity in *Sarcocystis neurona* Merozoites. S.C. Barr

8:15 20 Comparison of Diagnostic Techniques for *Microsporidia* in Lovebirds. C. Barton, D. Phalen, K. Snowden

8:30 21 *Coxiella*-like Organisms in *Amblyomma americanum* May Inhibit PCR-based Detection of *Ehrlichia chaffeensis.* C.J. Chambers, S.E. Little

8:45 22 The Ultrastructure of Gametogenesis of *Cryptosporidium baileyi* (Eimeriorina; Cryptosporidiidae) in the Respiratory Tract of Broiler Chickens (*Gallus domesticus*). M.A. Cheadle, M. Tovio-Kinnucan, B.L. Blagburn

9:00 23 Evaluation of the Efficacy of Carnidazole Against *Giardia.* M.E. Olson, C.A. Piche

9:15 24 Prevalence of *Sarcocystis* Species in the Intestine of the Opossum (*Didelphis virginiana*). J.P. Dubey

9:30 25 Evaluation of PCR for Detection of *Cryptosporidium parvum* in Environmental and Agricultural Samples. James A. Higgins, Mark C. Jenkins, James M. Trout, Earl J. Lewis, Thaddeus K. Graczyk, Ron Fayer

9:45 26 SSU rRNA Sequencing of Different Animal *Blastocystis* Isolates: How Similar are They? J. Hoevers, P. Holman, K. Snowden

10:00 27 Multiple DNA Markers Differentiate *Sarcocystis neurona* and *S. falcatula* and Identify Two Additional *Sarcocystis* spp. Shed by Opossums. S.M. Tanhauser, C.A. Yowell, T.J. Cutler, E.C. Greiner, R.J. MacKay, J.B. Dame

10:15-10:30 BREAK

Session V Room: LaSalle B&C
Topic: Cattle Nematode Chemotherapy
Moderators: C. Reinemeyer, K. Snowden

8:00 28 The Impact of Eprinomectin Treatment on Dairy Cattle Reproductive Performance. W.B. McPherson, B. Slacek, A. Familton, R.P. Gogolewski, W.G. Ryan, S.J. Gross

8:15 29 Comparative Efficacy of Commercial Pour-on Parasiticides Applied to Wet Cattle. L. Cruthers, R. Slone

8:30 30 Persistent Efficacy of Pour-on Formulations of Moxidectin and Ivermectin Against Naturally Acquired Nematode Infections of Beef Cattle in Florida. M.E. Jordan, W.E. Kunkle, Q.-Y Zeng, L.B. Davis, W.C. Clymer, C.H. Courtney

8:45 31 Persistent Activity of Doramectin Injectable Solution and Moxidection Pour-on Solution Against Naturally Acquired Infections in Stocker Cattle C.R. Reinemeyer, R.S. Rew

9:00 32 Evaluation of Persistent Efficacy of Doramectin and Ivermectin Injectable Against *Ostertagia ostertagi* and *Cooperia oncophora* in Cattle.J Vercruysse, J. Dorny, P.Demeulenaere, D. Smets, K. Claerebout, J. Agneessens

9:15 33 The Effect of Strategic Parasite Control with IVOMEC (ivermectin) Pour-on on Productivity of Cow-Calf Herds in Texas.S.Wikse, K. Barling, R. Field, T.Craig, C. White

9:30 34 Comparison of Persistent Anthelmintic Efficacy of Topical Formulations of Doramectin, Ivermectin, Eprinomectin and Moxidectin Against Naturally Acquired Infections in Beef Calves. J.C. Williams, A.F. Loyacano, A. DeRosa, J. Gurie, B.C. Clymer, F. Guerino

9:45 35 Dose Confirmation of Moxidectin 0.5% Pour-on Against Natural Nematode Infections in Lactating Dairy Cows. T.A. Yazwinski, C. Tucker, S. Copeland, T. Yazwinski, F. Guerino

10:00 36 Larvicidal Activity of Various Formulations of Fenbendazole in Cattle. C.R. Reinemeyer, E.M. Abbott

10:15-10:30 BREAK

Session VI Room: LaSalle A
Topic: Protozoology Lab Techniques
Moderators: D. Lindsay, M. Olson

10:30 37 Development of an RT-PCR Assay Based on mRNA Encoding Amyloglucosidase as a Method for Detecting Viable *Cryptosporidium parvum* Oocysts. M. Jenkins, J. Trout, J. Higgins, R. Fayer

10:45 38 Some Factors Affecting the Excystation of *Cryptosporidium parvum* Sporozoites. S. Kato, D.D. Bowman

11:00 39 Antigen Specific Th1 Cells Provide Protection but Th2 Cells Exacerbate Disease in Mice Infected With *Trypanosoma cruzi*. Sudesh Kumar, Rick L. Tarleton

11:15 40 Activity of Ponazuril Against *Sarcocystis neurona* and Other Apicomplexans. D.S. Lindsay, J.P. Dubey, T.J. Kennedy

11:30 41 Use of Classical Taxonomic Characters and Small Unit Ribosomal RNA (18S rRNA) Gene Sequences for Phylogenic Analysis of *Hepatozoon* spp. J.S. Mathew, R.A. Van Den Bussche, S.A. Ewing, J.R. Malayer, R.J. Panciera

11:45 42 *Giardia* and *Cryptosporidium* in Arctic Land and Marine Mammals. M.E. Olson, N. Guselle, L. Measures, P. Roach, N. Larter

12:00 43 Use of PCR as an Ancillary Test in the Diagnosis of *Tritrichomonas foetus.* Sarah Parker, Zhao-Rung Lun, John Campbell, Alvin Gajadhar

12:15 1:15-LUNCH

Session VII Room: LaSalle A
Topic: Cattle Parasite Studies
Moderators: R. Ridley, P. Scholl

10:30 44 Prophylactic Efficacy of a Long-Acting Ivermectin Injection Against the Cattle Tick *Boophilus microplus.* L.A. Carvalho, A.A. Bridi, L.G. Cramer, M.D. Soll, W.K. Langhoff

10:45 45 Efficacy of Ivermectin Long-acting Against *Dermatobia hominis* in Cattle. J.B. Cruz, J.L. Cox, A.E. Maciel, R.A. Barrick

11:00 46 Dose Confirmation of Moxidectin 0.5% Pour-on Against a Naturally-acquired Infestation of Chorioptic Mange Mites on Dairy Cattle in Wisconsin.
L. Smith, P.J. Scholl, F. Guerino

11:15 47 Dose Confirmation Studies of the 1% Nonaqeous Injectable Formulation of Moxidectin Against Naturally-acquired Infestations of Cattle Grubs and Lice on Cattle in Wisconsin.
L. Smith, P.J. Scholl, R. DeLay

11:30 48 Fecal Flotation Techniques- What's The Difference? M.W. Dryden, R.K. Ridley, V. Smith, A. Melli, P. Payne

11:45 49 Cellular Mechanisms in Adult *Haemonchus contortus* Intestine that are Determinants of Fenbendazole Efficacy. Douglas P. Jasmer, Chaoquin Yao, Abdur Rehman, Sandra Johnson

12:00 50 Analysis of Caspase-like Activity in the Intestine of *Haemonchus contortus*. Sankale Shompole, Douglas Jasmer

12:15-1:15 LUNCH

Session VIII AAVP SYMPOSIUM LaSalleA

Topic: Vaccine Development & Host-Parasite Relations. "Who Will Win the Molecular Arms Race?"

Moderators: H Hughes, T Kennedy

1:15 51 Parasite Vaccines: Is There Really Gold at the End of the Rainbow? H.P.A. Hughes

1:45 52 Immune Memory: Principles and Practice in Parasitic Infections. M. Campos

2:20 53 Type 1/Type2 Responses and Control of Humoral Immunity. *Mus* is Not *Bos*. D.M. Estes and W.C. Brown

2:45 54 Immunity to Gastrointestinal Nematodes: The Journey from Mice to Cattle L.C. Gasbarre

3:10-3:30 BREAK

PFIZER SELAMECTIN SERIES
Session IX LaSalle A
Moderators: A. Jernigan, T. McTier

3:30 55 The Identification of Selamectin: A Novel Avermectin Endectocide for Dogs and Cats. C.I. Bruce, B.F. Bishop, N.A. Evans, A.C. Goudie, K.A.F. Grafton, S.P. Gibson, M.S. Pacey, D.A. Perry, N.D.A. Walshe, M.J. Witty

3:45 56 Distribution of [3H] Selamectin on Dog Skin Following a Single Topical Application. U.A. Pillai, W.J. Millas, H.A. Stukenbrok, A.J. Milici, M.J. Potchoiba

4:00 57 Efficacy of Selamectin Against Fleas (*Ctenocephalides felis*) on Dogs and Cats Bathed 24 Hours After Treatment. T.L. McTier, M.S. Holbert, F. Sun, T.G. Rowan, A.D. Jernigan

4:10 58 Knockdown Efficacy of Selamectin Against *Ctenocephalides felis* Fleas on Dogs and Cats. A.D. Jernigan, T.G. Rowan, D.G. Smith, G.H. Sture, M.G. Murphy, R.L. Jones

4:20 59 Efficacy of Selamectin Against Pre-Adult stages of Fleas (*Ctenocephalides felis*) on Dogs and Cats. T.L. McTier, M.S. Holbert, A.D. Jernigan, B.L. Blagburn, R.H. Six, C.S. Wang, T.G. Rowan

4:30 60 Efficacy of Selamectin, Fipronil, Imidacloprid and Lufenuron/Milbemycin Against *Ctenocephalides felis* in Dogs. L. Ritzhaupt, T. Rowan, R. Jones

4:40 61 Efficacy of Selamectin, Fipronil and Lufenuron Against *Ctenocephalides felis* in Cats. L. Ritzhaupt, T. Rowan, R. Jones

4:50-5:10 BREAK

Sunday, July 11, 1999 continued

5:10 62 Efficacy of Selamectin Against Natural Infestations of *Sarcoptes scabiei* and *Otodectes cynotis* in Dogs and Cats. C.A. Thomas, D.J. Shanks, R.H. Six, S.Behan, P.Watson, C. Genchi, G. Pengo, D.D. Bowman, J.A. Hair, M.S. Holbert

5:20 63 Efficacy of Selamectin Against Adult *Rhipicephalus sanguineus* Ticks on Dogs. C. Chieffo, T.L. McTier, J.A. Hair, M.J. Trautmann, C.S. Wang, T.G. Rowan, A.D. Jernigan

5:30 64 Efficacy of Selamectin Against Adult *Dermacentor variabilis* Ticks on Dogs. A.D. Jernigan, T. McTier, J.A. Hair, C.A. Thomas, C. Chieffo, T.G. Rowan

5:40 65 Efficacy of Selamectin Against Induced and Natural Infections of *Toxocara cati* and *Ancylostoma tubaeformae* in Cats. R.H. Six, T.L. McTier, D.J. Shanks, J.W. McCall, D.D. Bowman, G. Pengo, C. Genchi, T.G. Rowan, A.D. Jernigan

5:50 66 Efficacy of Selamectin Against *Toxocara canis* in Dogs. J.A. Wren, T.L. McTier, C.A. Thomas, D.D. Bowman, A.D. Jernigan

6:00 67 Clinical Safety of Selamectin in Dogs. M.J. Novotny, M.J. Krautman,J. Earhart, C.S. Godwin, E.I. Evans, J.W. McCall, T.G. Rowan, C.D. Smothers, A.D. Jernigan

6:15 68 Clinical Safety of Selamectin in Cats. M.J. Krautmann M.J. Novotny, C.S. Godwin, E.I. Evans, J.W. McCall, T.G. Rowan, C.D. Smothers, A.D. Jernigan

8:00-10:00 PFIZER ANIMAL HEALTH RIVER CRUISE

Monday, July 12, 1999

Session X Room: *Maryland A*
Topic: Cattle Protozoology
Moderators: J.P. Dubey, P. Franks

8:00 69 Immune Responses in Calves Orally Inoculated with *Neospora caninum* Oocysts. T. DeMarez, J.P. Dubey, L. Gasbarre

8:15 70 Development of a Vaccine Against Neosporosis: Testing of *Neospora caninum* Antigens in a Congenital Mouse Model. S. Liddell, M. Jenkins, J.P. Dubey

8:30 71 The *Neospora caninum* Oocyst DS Lindsay, SJ Upton, JP Dubey

8:45 72 Genotypic Characterization of *Giardia duodenalis* from Western Australia and Western Canadian Dairy Calves. R.M. O'Handley, M.E. Olson, P. Adams, D. Fraser, R.C.A. Thompson

9:00 73 Characterization of *Cryptosporidium parvum*-like Parasites in Feedlot Steers. B. Ralston, T. McAllister, J. Reynolds, L. Kennedy, U. Morgan, A.G. Buret, M.E. Olson

9:15 74 *Sarcocystis* spp. Infections in Egyptian Water Buffalo. FG Sayed, AI Hamsa, SM Abdel-Rahman, MA El-Nazer, AM Mandour

9:30 75 Mucosal Immune Response in *Cryptosporidium parvum* Infected Calves That Have Recovered from *C. parvum* Enteritis. C.R. Wyatt, E.J. Brackett, L.E. Perryman

9:45 76 Geographic Information Systems Prediction Models For Fasciolosis. J. B. Malone, J.M. Yilma, M.V. Fuentes

10:00-10:15 BREAK

Session XI Room: LaSalle B&C

Topic: Companion Animal Endoparasitology

Moderators: C. Courtney, C. Faulkner

8:00 77 Prevalence of *Dirofilaria immitis* infection in Pet and Stray Cats in Eastern Tennessee. Amy Farley, Sharon Patton

8:15 78 Prevalence by Age Class, of Endoparasites of Dogs and Cats Examined by the University of Pennsylvania Veterinary Parasitology Laboratory (1995-1998). Thomas J. Nolan

8:30 79 The Effect of Season on Circulating Antibodies and Antigens of *Dirofilaria immitis* in Cats. S.V. Radecki, A.R. Donoghue

8:45 80 Seasonal Availability of Third Stage Larvae of *Dirofilaria immitis* in Mosquitoes from Florida and Louisiana. K.J. Watts, R.R. Ganta, R.A. Holmes, J.B. Lok, C.H. Courtney

9:00 81 A Fecal Survey Comparing Prevalence of Intestinal Parasites in Dogs With and Without Veterinary Care. Mark Werda, Jacqueline Bird

9:15 82 Efficacy Conferred by a Commercial *Giardia lamblia* Vaccine in Dogs. M.E. Olson, D.W. Morck, H. Ceri, Y.-W. Chang, M.A. Gill, W.M. Acree, H.J. Chu

9:30 83 Adoptive Protection Against Acute Neosporosis in SCID Mice. K.J. Dreier, D.A. Brake, D.M. Ritter

9:45 84 Attempted In Vitro Culture and In Vivo Treatment of *Cochlostoma anatis.* Catherine P. Walsh, Calvert T. Larsen, Anne M. Zajac, David S. Lindsay

10:00-10:15 BREAK

Session XII Room: LaSalle A

Topic: Cattle Nematology

Moderators: L. Ballweber, J.Stuedemann

10:15 85 Dose Comparison of *Ostertagia ostertag*i for Parasite Propagation in Cattle. D.K. Attebery, R.E. Plue, D.H. Wallace

10:30 86 Prevalence of Internal Parasites Among Dairy Herds in the Northern United States. D. Bowman, G. Smith, B.E. Stromberg, J.J. Melancon, D. Maye, C. Robertson-Plouch, J. Guerrero

10:45 87 Nematode Infection Levels in Calves Influence Resilience to These Infections in the Second Year. M. Eysker, J.H. Boersema, F.N. J. Kooyman, H.W. Ploeger

11:00 88 Medication of Cattle on Range: Measurement of Individual Animal Intake of Drug, Mineral, Salt and Protein. K. Garossino, B. Ralston, T.A. McAllister, D. Milligan, M.E. Olson

11:15 89 Comparison of Prepatent Period, Fecundity and Percent Establishment of *Trichostrongylus colubriformis* in Cattle and Sheep. S.E. Green, R.E. Plue, D.H. Wallace

11:30 90 Restoring Degraded Cropland by Grazing and Maintaining Parasite-Free Pastures by Integrating Anthelmintic Treatment of Cattle. J.A. Stuedemann, H. Ciordia, R.M. Kaplan, A.J. Franzluebbers, T.B. Stewart, D.H. Seman, L.W. Douglass, A.D. Lovell, S. W. Knapp

11:45 91 Field Evaluation of the Persistent Effect of Eprinomectin, Moxidectin, Doramectin and Ivermectin Pour-on Formulations as Indicated by Fecal Egg Counts of Grazing Steers. L.R. Ballweber, C. Siefker, R.R. Evans, J. Hawkins, R. Garcia

12:00-1:30 LUNCH

Session XIII Room: LaSalle A

Topic: Equine Parasitology

Moderators: D. French, B. Stromberg

10:15 92 Retrospective Study: Advance of the Equine Tapeworms. T.R. Bello, J.E. Abell

10:30 93 Description and Prevalence of Segmented Filamentous Bacteria on Adult *Strongylus edentatus* from Ponies in Louisiana. C.A. Benbow, W.A. Henk, N. Ward-Rainey, F.A. Rainey, M.R. Chapman, T.R. Klei

10:45 94 Intestinal Helminths of Ponies; a Comparison of Species Prevalent in Louisiana Pre- and Post-Ivermectin. M.R. Chapman, D.D. French, T.R. Klei

11:00 95 Confirmation of Efficacy of Moxidectin Against Encysted Stages of Equine Cyathostomes. D.D. French, M.R. Chapman, P.J. Scholl, T.R. Klei ,

11:15 96 Decreased Humoral and Cellular Immune Response to a Heterologous Protein in Heavily Parasitized Ponies. J.D. Johnson, D.W. Horohov, M.R. Chapman, S. Pourciau, K. Antoku, K. Snedden, T.R. Klei

11:30 97 Protective Immunity to *Strongylus vulgaris* Involves a Type 2 Cytokine Response. T.R. Klei, C. Vanderheyden, S. Pourciau, M.R. Chapman, R.M. Moore, H.W. Taylor, D.W. Horohov

11:45 98 Evaluation of Moxidectin 2% Equine Gel Against Naturally-acquired Cyathostome Infections in Tennessee. C.R. Reinemeyer, P.J. Scholl, D.W. Rock

12:00 99 A Clinical Trial of Praziquantel Horse Paste 9% Against *Anoplocephala perfoliata* in Horses. Owen Slocombe

12:15-1:30 LUNCH

1:30-2:00 BUSINESS MEETING

2:00-3:15PRESIDENTIAL ADDRESS & AWARDS Room: LaSalle A

3:15-3:30 BREAK

Session XIV Room: LaSalle A

Topic: Swine Parasitology

Moderators: R. Gamble, T.B. Stewart

3:30 100 Prevalence of *Toxoplasma gondii* and *Trichinella spiralis* in Pigs from Small Farms in the Northeastern and Midwestern United States. H.R. Gamble, J.P. Dubey

3:45 101 Swine Immune Responses to *Toxoplasma gondii* Infection. J.K. Lunney, G. Solano-Aguilar, L. Jauregui, E. Beshah, K. Garlan, J.P. Dubey

4:00 102 Farm Management and National Seroprevalence of *Toxoplasma gondii* in Swineherds in 1995. Sharon Patton, Vina Diderrich, Charles Faulkner, Raymond McCord, Tracy Wang, Jeff Zimmerman, Jim Kliebenstein

4:15 103 Prevalence of Swine Cysticercosis in Apodi Counti, State of Rio Grande do Norte, Brazil. L.C. Alves, L.P. Santos, M.A. Gloria Faustino, A.J. Vaz, P. Nakamura

4:30 104 *Spirometra mansonoides* in Feral Pigs: Identification and Prevalence. S.E. Little, M.L. Gray, F. Rogers, M. Puette, D.L. Ambrose, E.P. Hoberg

4:45 105 Performance of Pigs Infected with *Ascaris suum* or *Oesophagostomum dentatum.* S.E. Wiles, T.D. Bidner, L.L Southern, T, B. Stewart

5:00 106 Identification, Expression and Partial Characterization of a *Trichinella spiralis* NBL cDNA Clone Recognized by Swine Infection Serum. D.S. Zarlenga, P. Boyd, H.R. Gamble

5:15 107 A Single Multiplex PCR for Unequivocal Differentiation of Seven Distinct Genotypes of *Trichinella* and Three Geographical Genotypes of *Trichinella pseudospiralis.* D.S. Zarlenga, M.B. Chute, A. Martin, C.M.O. Kapel

5:30 108 Characterization of Two ß-Tubulin Genes From *Cylicocyclus nassatus* (Cyathostominae) that Correspond to the *Haemonchus contortus* Isotype 1 and Isotype 2 ß-Tubulin Genes. R.M. Kaplan, D. Goodman, S.C. Tolliver, E.T. Lyons

Session XV Room: LaSalle B&C

Topic: Potpourri

Moderators: B. Arther, R. Kaplan

3:30 109 Coumaphos Impregnated Strips for Control of Brood Mites (*Varroa jacobsoni*) and Small Hive Beetles (*Aethina tumida*) Infesting Honey Bee Colonies. R.G. Arther, J. R. Baxter, M.D. Ellis, M.S. Spivak

3:45 110 Direct to Consumer Promotion of Prescription Drugs. Mukund Parkhie, Mohammad Sharar, William Keller

4:00 111 A Survey of Echinococcosis in Tibetan Populations in China. P.M. Schantz, Liu Fengjie, Qiu Jiamen, Wang Wu, A. Ito

Monday, July 12, 1999 continued

4:15 112 VICH Harmonization of Veterinary Anthelmintic Guidelines. J. Vercruysse, D. Barth, G. Conder, P. Holdsworth, T. Letonja, K. Okano, N. Sasaki

4:30 113 Enhancing Veterinary Parasitological Research Capacity in Developing Countries: The DANINDA Livestock Helminth Research Project in Eastern and Southern Africa. A. Lee Willingham III, Peter Nansen

4:45 114 Performance of a Antigen Lateral Flow Test Cassette. A.R. Donoghue, P.M. Pace, N.D. Guevara, R.S. Frank

5:00 115 Serological Survey of Dogs and Humans for the Human Granulocytic Ehrlichiosis Agent in Rhode Island. U.G. Whitworth, V. Hindrichsen, T.N. Mather

5:15 116 The Development and Collection of *Dirofilaria immitis* Larvae. R. Thornton

5:30 117 Evaluation of the Speed of Kill of Fleas and Ticks with Fipronil or Imidacloprid. L. Cruthers, J. Guerrero, C. Robertson-Plouch

5:45 118 Safety and Efficacy of Etofenprox Against Fleas and Ticks on Cats and Dogs. T.A. Miller, W.A. Sequim, P. Boyd, W.L. Washburn

8:00- 10:00 GRADUATE STUDENT MIXER
Room: Jackson

Tuesday, July 13, 1999

AAVP/AVMA PRESIDENT'S SYMPOSIUM
Convention Center - Room 220-221
Topic: Equine Parasitology: Current Problems and Potential Solutions
Moderator: L.C. Gasbarre

8:30 119 Pathogenesis and Immunity to Small Strongyles of Horses. Thomas Klei

9:15 120 Transmission and Control of Small Strongyles of Horses. Craig Reinemeyer

10:00-10:30 BREAK

10:30 121 EPM: Possums, Parasites and Paresis. John Dame

11:15 122 Ehrlichial Infections of Horses. S.A. Ewing

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AAVP Newsletter Deadlines for Submissions

Newsletter	Deadline
October, 1998	September 20, 1998
February, 1999	January 20, 1999
June, 1999	May 20, 1999

Please contact the editor with questions regarding these dates.