AAVP Newsletter

American Association of Veterinary Parasitologists

June, 2000 **Volume 22, Number 2**

From the President

Dear AAVP Member:

The AAVP meeting scheduled for July 22-25 in Salt Lake City at the Salt Lake Marriot is ready-to-go. The papers are submitted and the proceedings are completed; all we have left to do is attend the meeting. The agenda is full, but there will be a simple meeting room arrangement, so that attending the sessions will not be a problem. Pharmaceutical company symposia and social evenings will put the icing on the solid program in place.

Before the formal meeting starts at 2 pm on Saturday, there will be an AAVP Board meeting at 10 am that the officers and each committee chairperson must attend and be prepared to report the activities of their committee. If that chairperson is unable to attend, be certain that a representative of the committee is informed of any action of the committee and is in attendance.

I would like to thank, in advance, all of the contributors to the meeting - authors, presenters, organizers, etc. Of course, special thanks to Dr. Anne Zajac who has had the lion's share of the work to organize the program and Dr. Dan Snyder who has organized the meeting site and the interaction with AVMA so smoothly. I look forward to seeing you all in Salt Lake City! *Rob Rew, President AAVP.*

From the Secretary Treasurer

From the Secretary/Treasurer

The 45th 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 for the President's AVMA/AAVP joint symposium will be held in the Salt Lake City Marriott Hotel. Anne Zajac has assembled a very large and exciting scientific program, which kicks off at 2:00 PM on Saturday July 22nd and ends at noon on Tuesday July 25th with Rob Rew's President's Symposium on Impact of Gastrointestinal Parasitism on Ruminant Production. Saturday evening we will have an AAVP Welcoming Social sponsored by Bayer after their symposium, on Sunday evening a Social sponsored by Pfizer after their symposium and on Monday evening a Social sponsored by Novartis after their symposium. A listing of the Program titles, times and room locations are listed elsewhere in the Newsletter. I will send in early June a postcard to those members who pre-registered and this card will serve as your receipt and evidence of registration. Please bring to the meeting the card as your evidence of registration. The onsite staff in Salt Lake City will provide you with pre-printed name badges, the proceedings book and other meeting materials starting at 11 AM 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

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up outside of the meeting rooms on Saturday and you can register on site starting at 11 AM 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 Salt Lake City Marriott Hotel, the AVMA will run a shuttle service between the various hotels that we are free to use. For those members who are unable to attend the Salt Lake City meeting, the Proceedings book will be mailed to you after the meeting. Hope to see you in Salt Lake City. *Submitted by Dan Snyder, Secretary-Treasurer, AAVP. Phone: 317/277-4439; fax: 317/277-4532; email: snyder_daniel_e@ Lilly.com.* □

Awards

2000 AAVP Awards

The awards committee selected the following individuals for awards, which will be presented and recognized at this years AAVP business meeting in Salt Lake City.

Student Travel Grants: 11 travel grants were awarded. The recipients are Alex Baudena, Louisiana State University; Andy Cheadle, University of Florida; Jacquelien Hoevers, Texas A&M University; Luis Jauregui, University Buenois Aires; Jenifer Johnson, Louisiana State University; Edmond Kabagambe, Louisiana State University; Satomi Kato, Cornell University; Keith Mertz, South Dakota State University; Annete Njue, McGill University; Maria Pena, Louisiana State University; and Alexa Rosypals, Virginia Tech.

AAVP-Intervet Graduate Student Award (sponsored by Intervet): The AAVP-Intervet Graduate Student Award recipient is Sheila Abner, graduate student at Michigan State University.

AAVP Distinguished Veterinary Parasitologist Award (sponsored by Pfizer Animal Health): The AAVP Distinguished Veterinary Parasitologist Award recipient is Dr. Edward Roberson, Professor Emeritus of Veterinary Parasitology, University of Georgia. Please look for a bibliography about Dr. Roberson in the Proceedings Book and also a synopsis of his talk presented at the meeting which will appear in the October 2000 AAVP Newsletter. *Respectively submitted by Dan Snyder, Secretary-Treasurer, on behalf of the AAVP Awards Committee.* □

Committee Reports

AAVP Election Results, Report from the Nominating Committee

The AAVP Nominating Committee (Dr. Alan A. Marchiondo, Chairperson; Drs. George A. Conder, Ann R. Donoghue, Timothy G. Geary, David S. Lindsay, and Linda S. Mansfield) wishes to congratulate the winners of the AAVP election ballot for Vice President and new members of the Nominating Committee. Based on the results of the election, Dr. Joseph F. Urban, Jr., USDA, ARS, LPSI, IDRL, Beltsville, MD, has been elected Vice President and Program Chair for 2000-2001. Dr. Susan E. Little, University of Georgia, Athens, GA and Dr. Philip J. Scholl, Fort Dodge Animal Health, Princeton, NJ, have been elected as the new members of the Nominating Committee. *Submitted by Al Marchiondo.* □

AAVP Education Committee

The AAVP Education Committee including Dr. Robert Ridley, Chair; Dr. David Baker; Dr. Steve Barr; Dr. Gary Conboy; Dr. Susan Little; and Dr. Cliff Monahan are soliciting responses to a questionnaire from all current Veterinary Parasitology Course Coordinators. The AAVP Education Committee is asking for your input concerning veterinary parasitology being taught as part of the professional veterinary curriculum. We understand that education goes far beyond the classroom, but this year we're trying to establish how much time we have in our curricula, how much time students have to practice diagnostic techniques in laboratory, what parasites we think are important to cover in our courses, as

well as some other things we may be able to use to help one another in arriving at some kind of norm if we find that desirable. Your help in filling out the following questionnaire will help us to make our case for keeping the hours we have in the present curricula, and perhaps recover some we've lost. If you need another copy for a different course coordinator, or if we sent this to you by mistake, please copy and/or forward to the appropriate person(s).

The online file format is Rich Text Format (RTF), so you should be able to open and print it in either Word or WordPerfect. If you can't open the file sent online, please use the hard copy at the end of this issue of the newsletter. Please return the completed form via snail mail or FAX to Bob Ridley at the address below. A summary of our responses will be submitted to the AAVP Newsletter or distributed electronically. The committee will be meeting on Saturday morning, July 22, and we invite anyone interested to join us at 10AM for discussion. I'll send a post advising you of the location as soon as I know where it will be. Thanks for your time and cooperation. Please return the questionnaire to: Dr. Robert K. Ridley, Dept. Diagn. Med./Pathobiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506-5606, Tel. 785-532-4615, Fax 785/532-4851, or Ridley@vet.ksu.edu.

Positions Available

Research Opportunities in the Molecular Genetics of Livestock Species

Several positions at the staff scientist (GS12-13, $50-70,000/yr depending on qualifications) and postdoctoral (GS-11, $41,000/yr) levels are currently available with the Agricultural Research Service at the U.S. Meat Animal Research Center (MARC) in Clay Center, Nebraska. Genomic research in livestock currently has unprecedented support and interest from both public and private sectors. MARC is the premier facility in the U.S. for conducting genomic research in livestock, and can be a career enhancement for persons interested in functional genomics in any species. For more information please visit http://www.marc.usda.gov/~smith/ads/molgen1.htm to see a description of some of our most biologically intriguing projects, or contact me directly at the following address. Timothy P.L. Smith, Research Chemist, Production Systems Research Unit, USDA/ARS U.S. Meat Animal Research Center, P.O. Box 166 Warehouse 51, Spur 18d, Clay Center, NE 68933 (402) 762-4366 ofc, (402) 762-4390 FAX, email: smith@email.marc.usda.gov.

Database Information

A List of the Lists

Check out "The Molecular Database Collection: an online compilation of relevant database resources" by A.D. Baxevanis, Nucleic Acids Research 28:1-7 (2000) which is available at http://www.oup.co.uk/nar/Volume_28/Issue_01/html/gkd115_gml.html.

Restriction Enzyme Information

For the latest info on enzymes, and great charts check out New England Biolab's Rebase Site! The URL is http://rebase.neb.com/rebase/rebase.charts.html.

Future Meetings

New Zealand/Australia Combined Parasitology Meeting

Welcome to the NZSP/ASP Conference 2000 to be held at Te Papa Wellington, New Zealand on 24 – 28 September, 2000. Every few years the New Zealand and Australian Societies for Parasitology get together. This year it is the turn of the New Zealand Society to be the host. The conference theme "Parasitology 2000 - New Century, New Climate" has been chosen to reflect on the direction that parasitological research may take in the new century as it responds to a changing climate - ecologically, environmentally, culturally and economically. This is an opportunity to listen to new research and ideas that are developing in parasitology. Apart from contributed papers there are symposia on: Future Approaches; Cell Biology and Immunology;

Parasites in a Changing World and Ecology, Biodiversity and Evolution.

Members of both societies and others interested in the field of parasitology are encouraged to attend what will be a lively and interesting gathering. Visitors from further afield will be especially welcome. The $NZ is about 50c US so the place is a bargain and the hospitality unrivalled. Further, delegates might like to visit the Olympic Games in Sydney on the way. Join us in Wellington in 2000. Information including registration details and forms are on the web site: http://www.rsnz.govt.nz/clan/nzsp/conference/index.htm. *Submitted by Nick Sangster, Associate Professor, Department of Veterinary Anatomy and Pathology, (Building B14), University of Sydney, 2006, AUSTRALIA.*

44th Annual Livestock Insect Workers' Conference

The 44th Annual Livestock Insect Workers' Conference will be held at the Radisson Ponce De Leon Golf & Conference Resort in St. Augustine, Florida from 26 to 29 June, 2000. The formal conference will start on Monday, 26 June 2000 with a symposium on Livestock and Tropical Veterinary Research Programs and conclude on Thursday, 29 June 2000. The program will follow commodity and parasite subjects plus an Industry Section, which will update insecticide labels and new product lines. For more information, please contact Dr. Jerry Butler (email: jfb@gnv.ifas.ufl.edu) or Dr. Jerry Hogsette (email: hogsette@gainesville.usda.ufl.edu). □

Healthy Animals 2000, Second Announcement

The Beltsville Symposium XXIV Healthy Animals 2000 will be held September 10-12, 2000 in Beltsville, Maryland. The symposium is sponsored by Friends of Agriculture Research - Beltsville, Inc. Healthy Animals 2000, is designed for scientists, producers, commodity clients, consultants and managers interested in livestock and poultry health and health-related issues. The promise that biotechnology can provide safe, healthy, productive and nutritious food animals in the new century will be realized through the definition of a healthy animal from a variety of different public and private perspectives. The challenges to animal health and food safety will continue to come from the areas of emerging infectious disease, zoonotic agents, animal stress, and antibiotic resistance, and new concerns about bio-terrorism. Safeguarding animal health will be a product of genomics and genetic selection, the use of probiotics, competitive exclusion products, vaccines and immune-modulators, and integrated and organic management systems. Documentation of food safety and quality will be an important factor in the production and distribution of food animal products worldwide.

This Symposium will provide an opportunity to hear and communicate with a collection of internationally recognized academic, government and industry experts that will present information on the topics of defining healthy animals, food safety, stress and disease, safeguarding animal health and documentation of animal health and food safety. Poster sessions will complement the invited presentations and will be part of a Symposium Proceedings published as a special supplement in *Preventive Veterinary Medicine*.

Posters containing experimental data and demonstration material will be displayed in the Holiday Inn, College Park, during an evening session (6:30-8:30 PM) on Sunday, September 10. Those interested in presenting a poster should provide a title, authors and affiliations along with an abstract in 12 point typeface as a single paragraph of no more than 2,300 characters (including spaces and punctuation) on hard copy and IBM-compatible disk format (indicate the operating system and word processing program used - disks will not be returned). Please send the Abstract and disk to the Symposium Secretary (Judy Sirk) no later than June 1, 2000. Space is limited and authors will be notified of acceptance for presentation by July 1, 2000. Dimensions of the poster presentation should not exceed a format of 36" X 48". The lettering for the heading with title, authors, and affiliation should be at least 1"

(72 points) high. A copy of the abstract, set in large type, should be posted in the upper left-hand corner of the poster. Abstracts will be included in the published proceedings, which will be part of a special issue of *Preventive Veterinary Medicine*.

The Beltsville Symposium XXIV will take place in the auditorium of Building 003, Beltsville Agricultural Research Center (http://www.barc.usda.gov), 10300 Baltimore Avenue, Beltsville, Maryland, September 10 through12, 2000. An opening informal reception and poster session (Sunday, September 10) will be held at the Holiday Inn, College Park, MD. The Holiday Inn at College Park is within short walking distance of the meeting site. Attendees requiring special assistance should contact the Symposium Secretary. A block of rooms has been reserved at the Holiday Inn, 10000 Baltimore Avenue, College Park MD 20740, at a special rate of $99 per night including breakfast. Reservations should be made by August 10, 2000, directly with the Holiday Inn. (Telephone 1-800-HOLIDAY or 301-345-6700 or by Fax 301-982-4361). A special bus tour of the Beltsville Agricultural Research Center will be available for registered participants and accompanying persons between 9:00 - 11:00 a.m. on Wednesday, September 13. Reservations are required and can be made at the symposium site or by contacting John Kucharski on (301) 504-9403 or email kucharsk @asrr.arsusda.gov. The Beltsville Symposium XXIV co-chairs are Louis Gasbarre (lgasbarr @lpsi.barc.usda.gov) and Joseph Urban (jurban@lpsi.barc.usda.gov) telephone numbers (301) 504-8509 and (301) 504-8765, respectively, and fax (301) 504-5306. For further information, please contact either of the co-chairs or check the website http://www.barc.usda.gov/fmod/ symposium/. For information on abstracts, contact Joseph Urban.

Future Meetings of the AAVP

45th Annual Meeting of AAVP

Preparations are underway for the 45th annual meeting of AAVP. We will be going west this year for our meeting in Salt Lake City from July 22-25. In addition to spectacular scenery we will have exciting symposia with invited speakers, social events, paper presentations and lots of opportunities for conversation with old and new friends and colleagues. The program has been assembled and appears in this issue of the newsletter on pages 6-15. The deadline for abstracts this year was March 15th. See you all in Salt Lake City! ***Submitted by Anne Zajac, Program Chair.*** □

Future AAVP meetings:
2000-Salt Lake City, Utah
2001-Boston
2002-Nashville
2003-Denver

Program for 2000 AAVP Meeting

Saturday, July 22, 2000

11:00 AM-7:00 PM Registration
Salon F Foyer

10:00 AM-1:30 PM AAVP Board Meeting
Salon J

2:00-2:15 Opening Remarks
Room: Salon F
President: R. Rew
Vice President & Program Chair: A. Zajac

Session I Room: Salon F
MERIAL THIRD ANNUAL SYMPOSIUM
Computers as Tools for the Veterinary Parasitologist
Moderator: J Guerrero

2:15 1 Computers as Tools for the Economic Evaluation of Parasitic Impact on Animal Production. D. T. Galligan

2:45 2 Computer-based Reconstructions of the Anterior Sensory Nervous System of Nematode Larvae: Structure/Function Relationships with Respect to the Infective Process. G.A. Schad

3:15 3 Pretty Pictures, and Prevention: Potential Uses of GIS in Parasitology. R.A. Thompson

3:45-4:00 Break

Session II Room: Salon E
Topic: Companion Animal Parasites
Moderators: K. Kazacos, T. Kennedy

4:00 4 The Efficacy Of Milbemycin Oxime/Lufenuron and Selamectin in Treating Adult Intestinal Nematodes *(Ancylostoma caninum, Toxocara canis,* and *Trichuris vulpis*). D.D. Bowman*, D.G. Stansfield. J.H. Thoren

4:15 5 An Indirect Enzyme-Linked Immunosorbent Assay For Diagnosis of American Canine Hepatozoonosis. J. S. Mathew*, J. T. Saliki, S. A. Ewing, T. W. Lehenbauer, R. J. Panciera, J. R. Malayer, C. A. Cummings, A. A. Kocan.

4:30 6 Efficacy of Moxidectin Canine SR (Slow-Release) Injectable Against Experimental Hookworm *(Ancylostoma caninum* and *Uncinaria stenocephala)* Infections in Dogs. D.D. Bowman*, J.W. McCall, P Supakorndej, N. Supakorndej, S.D. McCall, R.M. Cleale, P.J. Scholl, R.D. Rulli

4:45 7 Efficacy of a 10% Moxidectin Sustained Release (SR) Injectable Against Natural Hookworm and Roundworm Infections. K. Heaney*, R. L. Slone, L. R. Cruthers

5:00 8 "Out Of Africa": Massive Visceral Pentastomiasis in A Dog. R. Kazacos*, E. J. Kapke, W. R. Widmer, C. E. Fishman.

5:15 9 Use of a *Giardia* Vaccine as an Immuno-therapeutic Agent in Dogs. M. E.Olson, C. Hannigan, P. Gaviller, L. Fulton

5:30 10 A Survey of Canine Visceral Leishmaniasis in the City of Recife, Northeastern Brazil**.** A. D. Lima Junior*, L. C. Alves, E.S.M. Savani Mouriz, M.C.G.O Nicoletti Dáuria, S.A.Balduino,

Session III Room: Salon F
Topic: Equine Parasitology
Moderators: T. Klei, J. Johnson

4:00 11 Equine Antibody Responses to Somatic L3 and Surface Antigens of Cyathostomes. M.A. Baudena*, M. Kara, M.R. Chapman, T.R. Klei

4:15 12. Modulation of Equine T-Cell Responses to *Strongylus Vulgaris*. J. D. Johnson, * D. W. Horohov, R. M. Moore, M. R. Chapman, S. S. Pourciau, L. A. Mistric, T. R. Klei

Saturday, July 22, 2000 continued

4:30 13 Treatment of Equine Protozoal Myeloencephalitis with Nitazoxanide. Clara K. Fenger*, Kathleen Palma, Dorsey Kordic

4:45 14 Population Dynamics of Oribatid Mites on Horse Pastures in Central Florida. M.E. Jordan*, C.H. Courtney

5:00 15 An In Vitro Hatching Technique for *Gasterophilus intestinalis* Research. T.R. Bello

5:15 16 Parasite Control from the Horse Owner's Perspective. T.R. Bello

5:30 17 Prevalence and Mean Intensity of Cyathostomes (Cyathostominae: Strongylidae) of Ventral Colon of Equids Naturaly Infected from the State of Pernambuco., Brazil. M.P. Souto-Maior*, L.C. Alves, R. A. Mota, G. M. Carvalho-Junior, C. L. Barbosa

Session IV Room: Salon F
BAYER ANIMAL HEALTH SYMPOSIUM
Companion Animals: Insecticide Monitoring
Moderators: B. Arther, N. Mencke

6:00 18 Susceptibility of Fleas to Control Agents: Development of a Monitoring System. M. W. Dryden*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, O. Hansen, N. C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust , M. B. Vaughn

6:15 19 Flea Insecticide Resistance: A Perspective from Veterinary Parasitology. B. L. Blagburn*, D. L. Bledsoe, I. Denholm, M. W. Dryden, O. Hansen, N. C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust, M. B. Vaughan

6:30 20 Prospects for Combating Insecticide Resistance in Cat Fleas (*Ctenocephalides felis* Bouche, 1835): Lessons from Other Pests. I. Denholm*, B. L. Blagburn, D. L. Bledsoe, M. W. Dryden, O. Hansen, N. C. Hinkle,T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust, M. B. Vaughan

6:45 21 Development of Bioassays to Determine Flea Susceptibility to an Insecticide: Standardization of Laboratory Methods. D. E. Jacobs*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, M. W. Dryden, O. Hansen, N. C. Hinkle, T. Hopkins, H. Melhorn, N. Mencke, M. K. Rust, M. B. Vaughn

7:00 22 Bioassay Results of Laboratory Raised and Field-Collected Strains of the Cat Flea (*Ctenocephalides felis* Bouche, 1835). M. K. Rust*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, M. W. Dryden, O. Hansen, N. C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. B. Vaughn

7:15 23 Outlook into the Future: New Perspectives to Safeguard Insecticides. O. Hansen*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, M. W. Dryden, N.C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust, M. B. Vaughn

7:30 - 9:30 PM Room: Salons A-D
BAYER ANIMAL HEALTH WELCOMING RECEPTION

Sunday, July 23, 2000

Session V Room: Salon E
Topic: Cattle Nematode Management
Moderators: C. Reinemeyer, B. Stromberg

8:00 24 Therapeutic and Persistent Efficacy of the 1% Nonaqueous Injectable Formulation of Moxidectin Against Nematode Parasites of Cattle. S. Ranjan* , K. L. Simkins

Sunday, July 23, 2000 continued

8:15 25 Dose Confirmation Study of a 1% Moxidectin Nonaqueous Injectable Formulation Against Both L4 Larval and Adult Stages of *Dictyocaulus viviparous*, *Haemonchus placei*, and *Trichostrongylus axei* in Cattle in Wisconsin. L. Smith*, P. J. Scholl, R. Delay

8:30 26 Persistent Efficacy of Moxidectin Injectable Solution Against Artificially Induced Nematode Infections in Cattle. B. E. Stromberg*, G. A. Averbeck, J. F. Anderson, P . J. Scholl

8:45 27 Dose Confirmation Studies of Moxidectin 1% Injectable and 0.5% Pour-On Formulations Against Experimentally-Induced Infections with Larval and Adult *Oesophagostomum radiatum* and *Trichuris* spp. in Cattle. C. R. Reinemeyer*, R. M. Cleale

9:00 28 Dose Confirmation of Moxidectin 0.5% Pour-On Against Adult and Fourth Stage Larvae of *Cooperia* Spp. and *Trichostrongylus Colubriformis* in Calves. J. C. Williams, A. Derosa, B. Louque, F. Guerino

9:15 29 Comparison of Liquid and Block Supplement Free-Choice Intake in Cattle. K C. Garossino*, T. A. McAllister, D. N. Milligan, B. J. Ralston, M.E. Olson

9:30 30 Internal Parasite Effects on Beef Heifers. A. F. Loyacano*, J. C. Williams, J. Gurie, A. DeRosa

9:45 31 Management Practices and Use of Anthelmintics on Dairy Cattle Farms in Agreste Region of Pernambuco State, Brazil. J. Pompeu,*, M.J. S. Pereira, L. C. Alves, J. B. Oliveira

10:00-10:30 Break

Session VI Room: Salon F

Topic: Apicomplexan Parasites

Moderators: D. Lindsay, A. Cheadle

8:00 32 Serological Responses of Dogs Fed *Neospora Caninum* Tissue Cysts. A. C. Rosypal*, A. M. Zajac, D. S. Lindsay

8:15 33 Identification of Immunodominant Antigens Recognized by Cattle with Acute and Chronic *Neospora Caninum* Infections Associated with Abortion. R.M. O'Handley*, M.C. Jenkins, C. Bjorkman, A. Uggla, J.P. Dubey

8:30 34 Biological Characterization of *Sarcocystis neurona* Isolated from a Southern Sea Otter (*Enhydra lutris nereis)* D. S. Lindsay,* N. J. Thomas, B. M. Rosenthal, J. P. Dubey

8:45 35 *In Vitro* Culture of *Sarcocystis* Sporocysts in Equine Dermal Cells Long Term as a Method for Distinguishing *Sarcocystis neurona* and *Sarcocystis falcatula* . L. S. Mansfield, A. J. Murphy*, K. Nelson, P. Gearhart

9:00 36 Viability of *Sarcocystis neurona* Sporocysts and Dose Titration in Gamma-Interferon Knockout Mice M. A. Cheadle*, S. M. Tanhauser, J. B. Dame, Robert J. Mackay, And E. C. Greiner

9:15 37 Efficacy of Ponazuril Oral Suspension in Preventing Death in Mice Experimentally Infected with *Neospora caninum.* T. J. Kennedy, L. C. Stine-Purtle, J. A. Hall

9:30 38 *In Vitro* Quantitative Analysis of ^{3}H-Uracil Incorporation By *Sarcocytis Neurona* to Determine Efficacy of Anti-Protozoal Agents. J. Lakritz*, A E. Marsh

9:45 39 Characterization of the First Commercial *Neospora* Vaccine. L. Choromanski*, M. Vaughn

10:00-10:30 Break

Session VII Room: Salon E
Topic: Small Ruminant Parasites
Moderators: D. Jasmer, C. Monahan

10:30 40 The Effect of Corticosteroid. Treatment on the Immune Response to *Haemonchus contortus* Infections in Neonatal Gulf Coast Native Lambs. M. Peña*, J. Miller, D. Horovov, S. Barras, S. Pourciau

10:45 41 Field Evaluation of ConAH11-HgalGP Experimental Vaccine in Pre-Weaned and Weaned Lambs. E. K.Kabagambe*, M. T. Peña, W. D. Smith, J. E. Miller

11:00 42 Anthelmintic Efficacy Against Gastrointestinal Nematodes of Two Georgia Goat Herds. O. M. Samples*, T. H. Terrill, R. M. Kaplan, M. Larsen, S. Mobini, L. H. Williamson, S. Gelaye

11:15 43 Biological Control of Gastrointestinal Nematodes in Goats Using Nematode-Trapping Fungi. T.H. Terrill*, O. M. Samples , M. Larsen, J.E. Miller, C. M. Mathews, S. Gelaye

11:30 44 Assessment of Residual Anthelmintic Protection Afforded to Lambs Grazing an Infected Pasture Following 3 Different Anthelmintic Treatments. C. Monahan,*, W. P. Shulaw, C. Little

11:45 45 Is There Any Effect by Dietary Diatomaceous Earths in the Control of Gastrointestinal Nematodes? L. Nuti, B. Johnson, D. McWhinney, N. Elsayed, J. Thompson, T. Craig*

12:00 46 Comparative Efficacy of Doramectin, Ivermectin, Albendazole and Albendazole-Closantel Mixture Against Natural Nematode Infection in Awassi Sheep and Local Goats in Jordan. M.N. Abo-Shehada*, A. H. Atta, B. Arab, P. Torgerson

12:15-1:15-LUNCH

Session VIII Room: Salon F
Topic: Diagnostic Parasitology
Moderators: A. Gajadhar, K. Snowden

10:30 47 The Use of a Quality Assurance Program to Ensure Reliable Test Results. L.B. Forbes*, A. A. Gajadhar, W. B. Scandrett

10:45 48 Development of Improved Diagnostic Procedures for *Cysticercus bovis*. W. B. Scandrett*, S. E. Parker, O. A. Ogunremi, L. B. Forbes, A. A. Gajadhar

11:00 49 Evaluation of a Fluorogenic Real-Time PCR Assay for the Detection of *Toxoplasma gondii* in Biological Samples**.** L. H. Jauregui*, J. Higgins, D. Zarlenga, J. K. Lunney

11:15 50 Flow-Cytometry for Determining the Viability of Oocysts of *Cryptosporidium parvum* Recovered from Chambers. S. Kato*, D. D. Bowman

11:30 51 Comparison of Performance of Heartworm Antigen Test Kits in Dogs Having Low Worm Burdens. C. H. Courtney*, Qi-Yun Zeng

11:45 52 Study to Determine the Performance of Commercially Available Canine Heartworm Antigen Test Kits. J.W. McCall*, N. Supakorndej, A. R. Donoghue, R. K. Turnbull

12:00 53 Identification and Antigenic Characterization of Brazilian Isolates of *Anaplasma Marginale* Through Indirect Fluorescent Antibodies Technique and Western Blot with Monoclonal Antibodies. J.B. Oliveira, C.R. Madruga, M.A. M. Schenk, C.L. Massard, G.H. Palmer, J. Pompeu.

12:15-1:15 LUNCH

Session VIII Room: Salon F
AAVP SYMPOSIUM
Perplexing Protozoan Zoonoses: *Giardia* and *Leishmania*
Moderator: A. Zajac

1:15 54 Towards a Better Understanding of The Zoonotic Potential of *Giardia* Infections*:* The Impact of Molecular Epidemiology. R.C. A. Thompson.

2:05 55 Clinical Update on Small Animal Giardiasis. M. R. Lappin

2:45 56 Canine Visceral Leishmaniasis- United States. P. M .Schantz

3:15-3:30 Break

Session X Room: Salon E
Dirofilariasis
Moderators: D. Bowman, A. Donoghue

3:30 57 Field Evaluation of a Moxidectin Sustained Release Injectable Formulation for the Prevention of Heartworm Disease in Dogs**.** D. Rock*, K. Heaney, D. Peterson, W. Barton, S. Levy, L. Smith, And T. Terhune

3:45 58 Clinical Observations from the Administration of' Moxidectin Canine Sustained Release Injectable in Ivermectin Sensitive Dogs. A.J. Paul *, D.E. Hutchens, R. M. Cleale, W. Tranquilli

4:00 59 Further Evidence of Clinical Prophylactic (Reach-back) and Adulticidal Activity of Monthly Administrations of Ivermectin (Heartgard Plus™) in Dogs Experimentally Infected with Heartworms. J. W. McCall*, N. Supakorndej, A. M. Mansour, M. T. Dzimianski, S. D. McCall

4:15 60 Clinical Observations Following the Administration of Moxidectin Canine Sustained Release (SR) Injectable in Heartworm Positive Dogs. B. L. Blagburn*, J. M. Butler, J. L. Vaughan, R. Dino Rulli

4:30 61 Six Month Prophylactic Efficacy of a Sustained Release 10% Moxidectin Injectable Against *Dirofilaria immitis*. J. McCall*, J. Lok, D. Knight, M. Dzimianski, R. Cleale, W. Steber, M. K. Heaney

4:45 62 Effect of *In Vitro* Exposure to Melarsomine Dihydrochloride (Immiticide®) on Adult *Dirofilaria immitis* Transplanted into Heartworm Naïve Beagles. J. W. McCall, M. T. Dzimianski*, N. Supakorndej, P. Supakorndej, A. M. Mansour

5:00 63 Distribution, Prevalence and Relative Risk of Filariasis in Washington State Dogs 1997-1999. J.H. Theis*, F. Stevens, M. Law

5:15 64 Study on Prevalence Rate of *Spirocerca Lupi* (Nematoda: Spirurida) in Stray Dogs in Urmia, Iran**.** S. Naem, S. A. Sadati

Session XI Room: Salon F
Molecular Biology of Parasites
Moderators: S. Abner, L. Mansfield

3:30 65 Expressed Sequence Tags from *Haemonchus Contortus* Intestine. D. P. Jasmer, J. Roth, P. J. Myler

3:45 66 Cathepsin B-Like Cysteine Proteases Can Account for Intestinal Cysteine Protease Activity from *Haemonchus contortus*. S. Shompole*, D. P. Jasmer

4:00 67 Characterization of Serine-Threonine Kinase Genes in the Hookworm, *Ancylostoma caninum* P. Arasu*, C. Ratz, J. Therrien

4:15 68 Molecular and Antigenic Analysis of Multiple *Sarcocystis Neurona* Isolates Obtained from Horses with Equine Protozoal Myeloencephalitis from Different Geographic Regions. A. E. Marsh*, P. J. Johnson, D. Vardeleon, J. Ramos-Vara, G. C. Johnson.

4:30 69 Biological and Genetic Differences in *Neospora hughesi* and *Neospora caninum*. C. P. Walsh, R.B. Duncan, Jr, N. Sriranganathan, A. M. Zajac, M. C. Jenkins, D. S. Lindsay

4:45 70 Molecular Characterization of an Avian Isolate of *Encephalitozoon hellem.* K. Snowden*, K. Logan, D. Phalen

5:00 71 Phylogenetic Analysis of *Blastocystis* spp. from Animal Hosts. J. Hoevers*, K. Snowden.

Session XII Room: Salon F
PFIZER SELAMECTIN SERIES
Moderator: T. McTeir

5:30 72 Efficacy of Selamectin Against Experimentally Induced Heartworm (*Dirofilaria immitis*) Infections in Dogs and Cats**.** J. W. McCall*, T. L. Mctier, D. J. Shanks, P. Watson, C. Genchi, R. H. Six, C. A. Thomas, S. K. Dickin, G. Pengo, T. G. Rowan, A. D. Jernigan

5:45 73 Field Efficacy and Safety of Selamectin Against Heartworms in Dogs in the United States. M. G. Boy, R. H. Six, C. A. Thomas, J. A.Wren*, T. G. Rowan, A. D. Jernigan

6:00 74 Field Efficacy and Safety of Selamectin Against Fleas on Dogs and Cats in North America**.** M. G. Boy, R. H Six*, C. A. Thomas, T. G. Rowan, A. D. Jernigan

6:15 75 Evaluation of the Ovicidal and Larvacidal Effects of Selamectin Against Fleas (*Ctenocephalides felis*) on Dogs. T. L. Mctier*, M. H. Holbert, C. S. Wang, T. G. Rowan, A. D. Jernigan.

6:30 76 Field Efficacy and Safety of Selamectin Against *Otodectes cynotis* on Dogs and Cats in the United States and Europe. R. H. Six*, R. G. Clemence, C. A. Thomas, M. G. Boy, P. Watson, H. Benchaoui, P. J. M. Clements, T. G. Rowan, A. D. Jernigan

6:45 77 Field Efficacy and Safety of Selamectin Against *Sarcoptes Scabiei* on Dogs in the United States and Europe. T. L. Mctier*, R .H. Six, R. G. Clemence, C. A. Thomas, S. Behan, M. G. Boy, P. Watson, H.Benchoui, P. J. M. Clements, T. G. Rowan, A. D. Jernigan

7:00 78 Field Efficacy and Safety of Selamectin Against Gastrointestinal Nematodes in cats in the United States and Europe. R.H. Six, G. H. Sture, C. A. Thomas, R. G. Clemence, H. A. Benchaoui, M. G. Boy, P. Watson, D. G. Smith, J. A. Wren*, A. D. Jernigan, T. G. Rowan

7:30-9:30 Room: Salons A-E
PFIZER ANIMAL HEALTH RECEPTION

Monday, July 24, 2000

Session XIII Room: Salon E

Topic: Cattle Nematode Management

Moderators: C. Courtney, R. Ridley

8:00 79 Persistent Activity of Eprinomectin Pour-On for Cattle Against Trickle Infections of *Dictyocaulus viviparus.* J. E. Holste, D. Bowman, R. Sifferman, W. Langholff, D. Wallace, M. Romano, L. Cramer

8:30 80 Plasma and Milk Kinetics of Eprinomectin Following Topical Administration to Dairy Cows. M. Alvinerie

8:45 81 Comparison of Eprinomectin with Other Macrocyclic Lactones in Cattle. A. Paul, D. Hutchens*, K. Hart, A. E. Maciel, C. Robertson, S. J. Gross

9:00 82 Effect of Eprinomectin at Calving on Milk Production of Dairy Herds. G. Little, D. Beggs, I. Carmichael, R. Dyson, J. Malmo, N. Leighton, M. Pyman, M. Webster, R. Gogolewski, S. Gross, A. Maciel, W. Ryan*

9:15 83 Persistent Efficacy of Topical Doramectin and Eprinomectin Against *Ostertagia ostertagi* and *Cooperia oncophora* Infections in Cattle. J. Vercruysse*, P. Dorny, D. Demeulenaere, K. Smets , E. Claerebout

9:30 84 Estimating the Effects of Gastrointestinal Nematodes in Calves on Summer Pastures. K. J. Mertz*, W. B. Epperson, M. B. Hildreth

9:45 85 Optimum Frequency for Deworming Growing Cattle on Pasture During Winter in Florida. L. B. Davis, W. E. Kunkle, C. H. Courtney*

9:45 86 Transmission Rate of Gastrointestinal Nematode Infections of Sheep and Cattle in The Netherlands. M. Eysker*, C. Vergouw, H.W. Ploeger

10:00-10:30 Break

Session XIV Room: Salon F

Topic: Ectoparasites

Moderators: B. Blagburn, M. Dryden

8:00 87 Efficacy *In Vitro* of Acaricides in the Cattle Tick *Boophilus microplus* from Mata and Agreste Regions of Pernambuco. State, Brazil. V. L. A Santana, M. A Gloria Faustino, L. C. Alves*; M. M. Lima

8:15 88 Purification and Characterization of Cz Est9, a Permethrin Hydrolyzing Esterase of the Cattle Fever Tick, *Boophilus microplus*. John H. Pruett*, Felix D. Guerrero

8:30 89 Efficacy of Pyriproxyfen in a Spot-On Application against Fleas on Cats. T. A. Miller*, B. L. Blagburn

8:45 90 Evaluation of the Catandog's Tag to Eliminate and Prevent Flea Infestations in Cats. P. A. Payne*, M. W. Dryden, V. Smith

9:00 91 Identification of Novel Target Proteins by EST Sequencing of Cat Flea Tissue-Specific CDNA Libraries P. J. Gaines, K. S. Brandt, S. J. Walmsley, C. M. Bozic, N. Wisnewski*

9:15 92 Elimination Speed, Efficacy and Anti-Fixing, Anti-Feeding Efficacy of 9% Amitraz Collars and Topical Selamectin™ in Experimental *Dermacentor variablis* Infestations in Dogs. O. Elfassy*, F. Goodman, L. Leeper-Carter

9:30 93 Killing Effect of 9% Amitraz Collars and Topical Selamectin Against Pre-Existing *Dermacentor Variablis* Infestation in Dogs. O Elfassy* , F Goodman, L Leeper-Carter

9:45 94 Efficacy Of 9% Amitraz Tick Collars in Preventing the Transmission of *Borrelia Burgdorferi* to Dogs by *Ixodes scapularis*. O.Elfassy, F.Goodman, S. Levy*, L. Leeper-Carter

10:00-10:30 Break

Session XV Room: Salon E
Topic: Livestock and Poultry Parasites
Moderators: R. O'Handley, S. Marley

10:30 95 Comparison of Deworming Protocols for Replacement Gilts G. H. Myers*, F. L. Cunningham

10:45 96 Arthropod Vectors of Poultry Tapeworms in Southern California Caged Laying Hens. N. C. Hinkle, L. T. Luong, E.G. Platzer*.

11:00 97 Survey of G.I. Parasitism in Eastern U.S. Bison Herds. G.H.Myers

11:15 98 An Investigation into Fatal Cryptosporidiosis in Beef Cattle. M. E. Olson , B. Ralston*, T. A. Mcallister, M. Weststein, L. A. Heitman

11:30 99 Effect of Fenbendazole Treatment for Giardiosis in Calves on Intestinal Structure and Function. R.M. O'Handley*, M.E. Olson, A. Buret, T. A. McAllister, M. Jelinski

11:45 100 The Biology of *Giardia* And *Cryptosporidium* in a Beef Herd. B. Ralston*, T. A. Mcallister, M. E. Olson

12:00 101 Dealing with the Anthropocentric Nature of Zoonotic Disease Terminology. D.D. Bowman*

12:15 102 Efficacy of Crystal Protein of *Bacillus thuringiensis* Against Adult of *Schistosoma japonicum* In Vitro. Y.Baoan*, Z. Yanqin, X. Xueshan, Z. Junlong, S.Ming, Y. Ziuiu.

12:30-1:30 LUNCH

Session XVI Room: Salon F
Topic: Anthelmintics
Moderators: T. Geary, W. Ryan

10:30 103 Adequate Infection for Anthelmintic Therapeutic Effectiveness Studies in Cattle, Swine, Horses, Cats and Dogs. T. Letonja*

10:45 104 Properties of Levamisole Receptors: Recent Advances. R. J. Martin*

11:00 105 Nematocidal Activity of a Novel Paraherquamide Analog, PNU-141962, in Ruminants. S. S. Johnson*, S. T. Chester Jr., M. F. Clothier, L.F. Krabill, B. H. Lee, D.G. Martin, S. J. Nelson, E. M. Thomas, J. F. Williams, N. Wuyts, R. M. Zaya

11:15 106 The Mechanism of Anthelmintic Action of Paraherquamides is Nicotinic Cholinergic Antagonism**.** T. G. Geary*, E. W. Zinser, M. L. Wolfe, E. M. Thomas, V.E. Groppis, J. Nelson, D .P. Thompson

11:30 107 Polymerization and Benzimidazole Binding Assays with Recombinant α- and β-Tubulins from *Haemonchus c ontortus*. R. Prichard*, M. Oxberry, Y. Bounhas, S. Sharma, G. Lubega, T. Geary

11:45 108 Characterization of β-Tubulin Genes from Cyathostome Populations with Differing Sensitivities to Benzimidazole Anthelmintics. R. M. Kaplan*, M. R. Chapman, S. C. Tolliver, E. T. Lyons, T. R. Klei

12:00 109 Cloning a Glutamate-Gated Chloride Channel Gene Fragment from the Cattle Nematode, *Cooperia Oncophora.* A. I. Njue*, R. K. Prichard.

12:15-1:30 LUNCH

12:15-1:30 Room: Salon G
GRADUATE STUDENT LUNCHEON/MIXER

1:30-2:00 Room: Salon H
BUSINESS MEETING
2:00-3:15 Room: Salon H
PRESIDENTIAL ADDRESS & AWARDS

3:15-3:30 Break

Session XVII Room: Salon E
Topic: Immunology and Pathology of Livestock Parasites
Moderators: L. Gasbarre, A. Marsh

3:30 110 *Ostertagia Ostertagi* Fourth Stage Larvae Produce an Immunomodulative Factor. T. De Marez, L. Gasbarre

3:45 111 Identification of Larval Antigens of *Ostertagia Ostertagi* Shed in Feces of Experimentally Infected Calves. T. Qureshi, C. Santrich

4:00 112 Low Primary *Dictyocaulus viviparus* Infections Result in Immunity Against Challenge Infection in Calves. M. Eysker*, F. N.J. Kooyman, H. W. Ploeger

4:15 113 Application of Non-Attenuated and Gamma-Irradiated Eimerian Oocysts to Control Avian Coccidiosis. M. Jenkins*, S. Botero, P. Allen, H.Danforth.

4:30 114 Effect of IL-2 DNA Immunization on Cell-Mediated Immunity and Disease Resistance to Coccidiosis in Chickens. H. S. Lillehoj* W. Min

4:45 115 *Trichuris suis* Excretory-Secretory Products Inhibit the Growth of *Campylobacter jejuni*. S.R. Abner, D.E. Hill, J.F. Urban, L. S. Mansfield*.

5:00 116 Infection of pigs with *Ascaris suum* Reduces Uptake of Opsonized-*Staphylococcus aureus* by Pulmonary Alveolar Macrophages. J.F. Urban, Jr*, M. Morimoto, K. Ishiwata, M. Morimoto, L. Schopf, M. Wills-Karp

5:15 117 Muscle Catabolism During Poultry Coccidiosis. R.H. Fetterer*, P.C. Allen, P.C. Augustine

Session XVIII Room: Salon F
Topic: Epidemiology of Parasitic Infections
Moderators: L. Rickard, S. Little

3:45 118 Implementation of National Parasite Occurrence Tracking Using a Computerised Database. L. Polley, C. Gaschler, A. Gadjadhar

4:00 119 Prevalence of Antibodies to *Neospora Caninum* in White-Tailed Deer from the Southeastern US. S. E. Little*, D. S. Lindsay, W. R. Davidson

4:15 120 Canine Crenosomosis in Atlantic Canada. G. A. Conboy

4:30 121 American Women Pioneers in Veterinary Parasitology. R. A. Roncalli

4:45 122 Prevalence of *Cryptosporidium* and *Giardia* Spp. in Northern Alaskan Mammals. L.G. Rickard*, C. Siefker, J.S. Simmons, G.T. Pharr, T.M. O'Hara.

Monday, July 24, 2000 continued

5:00 123 The Prevalence of *Giardia* and *Cryptosporidium* in Human, Agriculture, and Wildlife Sources Directly Affecting the North Saskatchewan River Basin in Central Alberta, Canada. T. L. Heitman, L. M. Frederick, J. R. Viste, N. J. Guselle, S. E. Cooke, L. D. Roy, U. M. Morgan, R. C. A. Thompson, and M. E. Olson

5:15 124 Prevalence of Environmentally Important Parasites and Bacteria in Alberta Hogs. N. J. Guselle*, M. E. Olson.

5:30 125 Carrion Dipteran Flies in Riyadh, Saudi Arabia. M. N. Abo-Shehada

Session XIX Room: Salon F
NOVARTIS SERIES
Moderator: J. Login

6:00 126 A Brief Introduction to Nitenpyram. R Schenker,, O Tinembart,. S. H. Barnett, S. T. Witte*. Yerly

6:15 127 Efficacy of Nitenpyram Against Fleas on Dogs and Cats in a Clinical Field Study. R. Schenker, L. G. Luempert, S. H. Barnett

6:30 128 Simulated Home Trials to Compare Nitenpyram Flavored Tablets in Combination with Program®(lufenuron) to Program Alone for the Control of *C. felis* on Cats and Dogs. R. Schenker, S. Barnett*

6:45 129 Safety of Nitenpyram in Dogs. S. T. Witte*, L. G. Luempert, III, E. I. Goldenthal, J. L. Schardein, B. E. Johnson

7:00 130 Safety of Nitenpyram in Cats. S. T. Witte*, L. G. Luempert, III, B. E. Johnson, I. M. Grossi, E. I. Goldenthal

7:15 131 Efficacy of Nitenpyram Against a Flea Strain with Resistance To Fipronil. R. Schenker, E. Humbert-Droz, E.W. Moyses[1], B. Yerly

7:30-9:30 Room: Salons F-J
NOVARTIS ANIMAL HEALTH RECEPTION

Tuesday, July 25, 2000

AAVP/AVMA PRESIDENT'S SYMPOSIUM
Convention Center - Room 220-221
Topic: Impact of gastrointestinal Parasitism on Ruminant Production
Moderator: Robert S. Rew

8:30 132 The Influence of Dietary Supplementation on the Resistance and Resilience of Ruminants to Gastrointestinal Parasitism. R L Coop

9:15 133 Effect of *Ostertagia Ostertagi* Infection on Appetite in Cattle. M. T. Fox

10:00-10:30 Break

10:30 134 Potential Impacts of Anti-nematode Immune Responses on Animal Productivity. .L. C. Gasbarre

11:15 135 Impact of Parasite Control in Cattle in Field Trials in North America. R. S. Rew

May 2, 2000

AAVP Education Committee Questionnaire - 2000
1.Name: _____
Veterinary School:_____

2. Are you on a semester ( ) or quarter ( ) system? Does your veterinary college allow students to track in a given area (e.g., small animal, food animal, equine, etc.) ?
Yes _____ No _____

3. a. Course #1 Name _____ Credit hours ( )
Semester/Quarter Taught[1] _____

Lecture contact hours/week _____ Laboratory contact hours/week _____

% of Course devoted to parasitology _____

% of Parasitology Devoted to: Small Animals _____ Ruminants _____
Equine_____Swine _____ Avian _____ Exotics/Foreign _____

How many of professorial rank are involved in teaching this course? _____

How many graduate students ( ) or technicians ( ) are involved in teaching this course?

3. b. Course #2 Name _____ Credit hours ( )
Semester/Quarter Taught[1] _____

Lecture contact hours/week _____ Laboratory contact hours/week _____

% of Course devoted to parasitology _____

% of Parasitology Devoted to: Small Animals _____ Ruminants _____
Equine_____Swine _____ Avian _____ Exotics/Foreign _____

How many of professorial rank are involved in teaching this course? _____

How many graduate students ( ) or technicians ( ) are involved in teaching this course?

3. c. Course #3 Name _____ Credit hours ( )
Semester/Quarter Taught[1] _____

Lecture contact hours/week _____ Laboratory contact hours/week _____

[1] e.g., Fall/II

% of Course devoted to parasitology _____

% of Parasitology Devoted to: Small Animals _____ Ruminants _____
Equine_____Swine _____ Avian _____ Exotics/Foreign _____

How many of professorial rank are involved in teaching this course? _____

How many graduate students ( ) or technicians ( ) are involved in teaching this course?

4. Do you have a teaching budget? _____ Approximate dollars for teaching _____

5. Do you have a course syllabus? (e.g., a study document similar to a text) _____

6. Do you provide (for purchase by students or distributed from "teaching funds") your own lab manual/laboratory exercises? _____

Comments:

7. Do you use a published textbook?_____ A published laboratory manual?_____

8. Text Name: _____ Lab Manual Name _____

9. Other required/recommended ancillary materials? _____

Comments:

10. Would you describe the courses listed in 3.a, 3.b, and 3.c above as having a disciplinary/taxonomic ( ) systems/organ ( )
problem based ( ) or combined ( ) approach?
(Please put the course numbers in appropriate parentheses.)

11. Do you try to integrate your course material with material from other courses? (Pathology, microbiology, pharmacology, virology, mycology, etc.) Please comment below.

12. If you track at your veterinary college, please answer below. Otherwise skip to question 13

Is parasitology included in the species-focused curriculum ( ), taught as part of the core ( ) , or both? ( )

How many lectures/labs are taught in the species-focused curriculum? _____

How many lectures/labs are offered as electives? _____

How many veterinary students/year choose to take parasitology electives if offered? _____

13.Do you cover exotic/foreign parasitic diseases? (e.g.; African trypanosomes)
Yes ____ No ____

14. Do you cover parasitisms affecting exotic species? ; (e.g., reptiles, Rattites, llamas)
Yes ____ No ____

15. Do you cover parasitic diseases of cage birds and poultry? Yes ____ No ____

16. Do you cover the Neorickettsia as a part of the parasitology course? (e.g., Anaplasma, Ehrlichia, Hemobartonella, etc.) Yes ____ No ____

17. Number of laboratory sections taught (e.g.,; how many times do you teach the same lab to different students?) _____

18. Do you have the opportunity to break into small groups for discussion? _____

19. Do you require students to use the **internet** as part of the course content? _____

20. Do you post your course outline ( ), syllabus ( ), diagnostic images ( ), practice exams ( ) on your **intranet**?

Comment:

21. Do you utilize commercial CDs? _____

22. Do you have the capability of burning your own CD images, either for distribution or study? _____

23. Are your students required to have their own computers? _____

Comment:

24. Would you be interested in sharing your syllabus, lab manual, exams, images with other course coordinators if we can establish a **SECURE, PASSWORD-PROTECTED** area on the AAVP website?

Syllabus	Yes ( ) No ( )
Laboratory Manual	Yes ( ) No ( )
Exams	Yes ( ) No ( )
Images:	Yes ( ) No ( )

The following questions refer to diagnostics/laboratory methods taught

25. Please indicate (✓) the diagnostic techniques you teach in laboratory.

- Fecal Float
  - Centrifugation
    - Swinging Head _____
    - Fixed Head _____
  - Ovassay _____
  - Fecalizer _____
  - Simple float (e.g., shell vial, etc.) _____
- Smear_____
- Sedimentation _____
- Other (e.g., Evergreen Apparatus),_____

Special Stains (e.g., acid-fast, Chlorazol Black, Lugol's Iodine/ Diff-Quik, etc.)
_____

Fluke Finder or other screening procedures for liver flukes _____
Comments:

26. Flotation Solution(s) routinely used in lab

- Sheather's Sugar_____
- Sodium Nitrate _____
- Zinc Sulfate _____
- Magnesium Sulfate _____
- Potassium Dichromate _____
- Other _____

27. ELISAs Students run in laboratory

Canine heartworm _____
Feline Heartworm _____
Cryptosporidium _____
Giardia _____
Other (Please indicate)_____

Comments:

28. Knott's Test for Heartworm _____ (Still required for animals going overseas)

29. Membrane Filter test for microfilariae? _____

30.Students set up and recover ruminant or equine larvae from Baermann.
Yes _____ No _____

31.Students examine Larvae from Baermann cultures supplied by instructor.
31. Yes _____ No _____

32. Do students provide their own microscopes ( ), or does the College/Department provide microscopes for student use. ( )

33. If provided, does each student share ( ) or have exclusive use of a microscope for his/her own use ( ) during a given laboratory period?

Thank you for taking time to complete this questionnaire!

The American Association of Veterinary Parasitologists

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AAVP Newsletter Deadlines for Submissions

Newsletter	Deadline
February, 2000	January 20, 2000
June, 2000	May 20, 2000
October, 2000	September 20, 2000

Please contact the editor with questions regarding these dates.