AAVP Newsletter

American Association of Veterinary Parasitologists

October, 2011 Volume 33, Number 3

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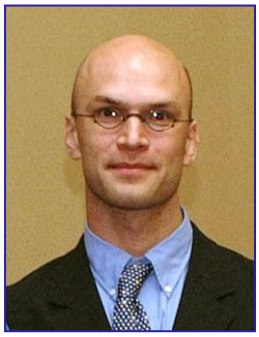
From the President

Dear AAVP members and colleagues,



Despite my best intentions time has slipped away since our annual meeting in St. Louis this summer. It was great to see so many colleagues and friends, and I hope that like me you've enjoyed the joined meeting with ISEP and LIWC. From a scientific and an organizational standpoint it feels like a great fit, one for an "*encore*" in 2015 when ISEP is back in the USA.

As many AAVP presidents before me this October newsletter allows me to reflect on what I would like AAVP to achieve in the remaining 9 months when our roles as officers or committee members end or change. As many presidents before I mainly hope that we can keep AAVP relevant to the membership and to society. We do great educational work with our annual meeting, the educator's symposium, and the veterinary board certification initiative through ACVM. The listserv, the distribution list and now the AAVP facebook page continue to provide great routes of communication among our membership. We, the AAVP, do "provide for the association of persons interested in the advancement of veterinary parasitology" and we do "further scientific progress by education and research" as spelled out as our constitution. However, it is a crowded field out there and with the current technologies quality does not always prevail over quantity. I would therefore like to challenge each one of you to sign up for a committee position (sure you can join even if you did not make it to the annual meeting) and for each of the committees to hold at least a couple of teleconferences in the next 9 months to discuss and drive your plans for 2011-

From the President (continued)

2012. Committees like education, outreach/research and publications/internet have great opportunities to be the voice of AAVP, while others are key to keeping our organization running smoothly. In the next coming weeks I'll reach out to each of the chairs of the committees to provide some gentle social pressure to make this happen. The executive committee will also start its own teleconferences soon and will be meeting in person in February to plan the next annual meeting, confirm the 2013 venue, craft an updated and internet friendly "mission statement" among many other items.

Finally, while we are rightfully proud of what AAVP stands for and achieves every year, a little advertisement never hurt anyone. Go ahead and put a link to the AAVP website on your home page, join us or "like" us on facebook, or write a little article for your school or company's newsletter about AAVP, our meetings and symposium. Be proud, be active.

Patrick

AAVP President 2011-2012

From the Secretary/Treasurer

The 56th annual AAVP meeting held last July in St. Louis in conjunction with the Livestock Insect Workers' Conference (LIWC) and the International Symposium on External Parasites of Pets (ISEP) was a tremendous success. Attendance included 244 veterinary parasitologists and entomologist, students, speakers, and guests. We were fortunate once again to receive strong financial support from 25 corporate sponsors including three premium evening socials. The meeting registration fees and social event opportunities would be dramatically altered without this support. Special thanks go out to Patrick Meeus, Karen Snowden, and the organizing committee for their dedicated efforts to secure corporate funding for this meeting.

2012 Dues

The 2012 dues year runs from September 1, 2011 to August 31, 2012. Your 2012 dues are now due. Membership Renewal and the New Membership Application forms are attached to this issue of the Newsletter and are also available on the AAVP website (www.aavp.org). Please pass along a copy of the New Member Application form to colleagues or students who are interested in joining AAVP. You are encouraged to pay on-line by credit card (Visa, MasterCard and American Express). On-line dues payments and meeting registration fees are processed through an independent organization (Network for Good, NFG).This company deals primarily with the receipt and processing of donations to charities and non-profit organizations. Occasionally inconveniences have been reported with the acceptance of credit card transactions processed through NFG. These problems for the most part occur due to an issue with the credit card rather than a problem with NFG. We have explored the use of other companies to process the AAVP on-line transactions but NFG provides a secure and low cost service that although not perfect remains our best option. If you experience any difficulty with on-line dues payment please let me know and I will help resolve the issue.

Members in good standing may also purchase an online subscription to Veterinary Parasitology for only $37.00 per year.

Members who are behind in their dues are in jeopardy of being deleted from the membership list. Please contact me if you have any questions about your dues status,

Dr. Bob Arther
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Submitted by Dr. Bob Arther, Secretary/Treasurer AAVP.

2011-2012 AAVP Officers

Based on the results of the elections, the current officers of AAVP are as follows:

President: Dr. Patrick Meeus, Pfizer Animal Health, Kalamazoo, Mi

President-Elect and 2011 Program Chair: Dr. Alan A. Marchiondo, Pfizer Animal Health, Kalamazoo, MI

Vice-President: Dr. Dwight Bowman, Cornell University, Ithaca, NY

Secretary/Treasurer: Dr. Bob Arther, Bayer Animal Health, Shawnee, KS

Immediate Past-President: Dr. Karen Snowden, Texas A&M University, College Station, TX

AAVP Committee Chairs and Members

The **chairs** and members of the committees for 2011-2012 are provided below. Thanks to those who volunteered their time. If anyone else would like to serve, please contact either me or the chair of the committee.

Nominations Committee (elected)

Tom Nolan (2013), James E. Miller (2013), Tammi Krecek (2012),Tom Klei (2012), Ray Kaplan (2014), Tom Craig (2014)

Student Representative (elected)

Alice Houk (2012), Brian Herrin (2013)

2012 Program Committee

Al Marchiondo, Patrick Meeus, Karen Snowden, Dwight Bowman

APPOINTED COMMITTEES

Listserv Manager (ad hoc)

Bert Stromberg

Historian (ad hoc)

Raffaele Roncalli

Archives

Tom Nolan (2012), Raffaele Roncalli (2013), Les Choromanski (2012), Miguel Suderman (2014)

Awards Committee

Andrew Peregrine (2012), Doug Carithers (2012), Doug Hutchens (2013), Stephanie Heise (2013), Tom McTier (2014), Jeff Clark (2014), Sara Marley (2014), Dan Snyder (2014)

Constitution and Bylaws Committee

Wendell Davis (2012), Lori Carter (2012), Stephanie Heise (2012), Amy Edwards (2012)

Education Committee

Gary Conboy (2012), Doug Hutchens (2012), Araceli Lucio-Forster (2012), Mary Rossano (2011), Tammi Krecek (2011), Pat Payne (2013), Christian Epe (2014), Tom Craig (2014)

Finance Committee

Ray Kaplan (2012), James Miller (2012), Andrew Moorhead (2013), Robert Miller (2014), Kerry Powell (2014)

Newsletter/Editorial Board

Jenifer Edmonds, Editor (2012), Ann Donoghue (2012), Claire Mannella (2013), Sue Holzmer (2014), Barbara Shock (2014), Theresa Hartwell (2014)

Publications/Internet Committee

Tom Nolan (2012), Tariq Qureshi (2013), Richard Endris (2014), Kelly Allen (2014), Chris Adolph (2014)

Research/Outreach Committee

Anne Zajac (2012), Jeanne Howell (2012), Doug Hutchens (2012), Charles Mackenzie (2013), Christine McCoy (2014), Lora Ballweber (2014), Kerry Powell (2014)

Past Presidents

Karen Snowden (2014), Lora Ballweber (2013), Susan Little (2012)

Submitted by Dr. Patrick Meeus. President, AAVP.

AAVP President Dr. Patrick Meeus presented a recognition plaque to outgoing president Dr. Karen Snowden.

AAVP Awards

2011 AAVP Distinguished Veterinary Parasitologist Award (sponsored by Merial)

The AAVP Distinguished Veterinary Parasitologist Award recipient for 2011 is Dr. Thomas M. Craig.

Dr. Doug Carithers, of Merial LTD and Dr. Andrew Peregrine (pictured right, AAVP Awards Committee) presented the Distinguished Veterinary Parasitologist Award to Dr. Thomas Craig (pictured left).

2011 AAVP Student Awards

AAVP Young Investigator Travel Grant Award Winners

Dr. Andrew Peregrine (right, Awards Committee) and the 2011 AAVP Travel Grant Recipients. Front row (left to right): Barbara Shock, Jessica Edwards, Flavia Girao Sriveny Dangoudoutoiyan, Lindsay Starkey, Brian Herrin, Alice Houk, and Ashley McGrew. . Back row (left to right): Ablesh Gautam, Roxanne Charles, Gail Moraru, Aaron Herndon, Victoria Polito, Melissa Thomson, Chris Adolf,and Brad DeWolf.

Nineteen students received Young Investigator Travel Grants to assist with attendance at the 2011 meeting. All nineteen students gave oral presentations within the scientific program. The names of the travel grant recipients, including institutions and advisors, were:

Chris Adolph (Oklahoma State University, Susan Little)
Roxanne Charles (University of Georgia, Michael Yabsley)
Sriveny Dangoudoubiyam (University of Kentucky, Daniel Howe)
Brad De Wolf (University of Guelph, Andrew Peregrine)
Kristine Edwards (Mississippi State University, Andrea Varela-Stokes)
Ablesh Gautam (University of Kentucky, Daniel Howe)
Flavia Girao (Mississippi State University, Andrea Varela-Stokes)
Aaron Herndon (Oklahoma State University, Susan Little)
Brian Herrin (Oklahoma State University, Susan Little)
Alice Houk (Virginia Tech, David Lindsay)
Ashley McGrew (Colorado State University, Lora Ballweber)
Gail Moraru (Mississippi State University, Andrea Varela-Stokes)
Victoria Polito (Oklahoma State University, Mason Reichard)
Jessica Rodriguez (Texas A&M, Karen Snowden)
Rebecca Sayre (Texas A&M, Karen Snowden)
Barbara Shock (University of Georgia, Michael Yabsley)
Lindsay Starkey (Oklahoma State University, Susan Little)
Melissa Thomson (University of Lethbridge, Doug Colwell)
Daniel Zarate (University of Georgia, Ray Kaplan)

AAVP-Intervet / Schering Plough Outstanding Graduate Student Award

This year the AAVP-Intervet/Schering-Plough Graduate Student award was presented to Aaron Lucas, Virginia-Maryland Regional College of Veterinary Medicine, Virginia Tech. Aaron gave a 30-minute talk at the beginning of the student presentations entitled “Bovine coccidiasis: Dynamics of infection in grazing cattle and potential role of stress and immunity”.

Stephen Tegarden from Merck, formerly Intervet-Schering Plough (left), presented Aaron with the award along with Andrew Peregrine, AAVP Awards Committee.

AAVP/CAPC Graduate Student Award in Zoonotic Disease

Jessica Edwards, University of Georgia, was selected as the recipient of the fourth AAVP-CAPC Graduate Student Award in Zoonotic Disease, for her research on *Trypanosoma cruzi*.

Dwight Bowman, CAPC, and Andrew Peregrine presented the AAVP/CAPC Award to Jessica.

Bayer Best Student Paper Award Recipients

Congratulations to Whitney Boozer, from the University of Georgia (pictured left), for her 1st-place presentation: “Shedding light on darkling beetle resistance in Georgia broiler systems”. Melissa Thomson, University of Lethbridge (pictured right), received 2nd place in the Best Student Paper Presentation competition for her talk entitled: “Epizootiology of the emerging lancet liver fluke (*Dicrocoelium dendriticum*) within a multi-host community in Alberta, Canada”. Both award winners were presented with honoraria during the awards ceremony by Dr. Andrew Peregrine.

Chris Adolph (Oklahoma State University), Ashley McGrew (Colorado State University), Brad De Wolf (University of Guelph), and Lena Guisewite (not pictured) (North Carolina State University), all received honorable mentions for their presentations and will have their student registration fee for the 2012 AAVP meeting covered by the AAVP.

And one very encouraging note: Twenty-six students gave presentations in the 2011 Best Student Paper Competition – the highest number for many years!

Submitted by Andrew Peregrine, Chairman, AAVP Awards Committee

Announcements

The Forever War: Malaria versus the World

The New York Academy of Sciences (NYAS), is a non-profit membership organization with over 25,000 members in 140 countries. The NYAS mission is to advance scientific knowledge, mobilize science to address major global challenges, and to increase the number of scientifically informed individuals in society. For more information visit our website at https://www.nyas.org. This fall the Academy will present:

November 16, 2011
The Forever War: Malaria versus the World
The goal of the symposium is to call attention to the enormous burden imposed by malaria, and highlight the groundbreaking research conducted by Johns Hopkins researchers as well as other scientists aligned in the battle against this disease. Keynote Speaker: Jeffrey D. Sachs, PhD (The Earth Institute, Columbia University)

Parasitology Educators Symposium

The Education Committee is planning an exciting Parasitology Educators Symposium which is scheduled for Dec 15-16, 2011, at the USDA facility in Beltsville, MD. This meeting is made possible by financial support from the AAVP and the Companion Animal Parasite Council (CAPC). The topics to be addressed at the meeting are defining core competencies in veterinary parasitology, and taking a fresh look at what we teach, how we teach, and how we assess student learning in this field. Our goal is to have the AAVP take a lead role in defining clinical competencies in the area of veterinary parasitology. Some of the program speakers include Dr. David Granstrom (AVMA executive and AAVP member) giving the AVMA COE perspective, Dr. Susan Little (OK State Univ.) presenting data on "what we teach" and "what we see diagnostically" based on a survey of the parasitology instructors and diagnosticians from the North American CVM/SVMs, and Drs. Tammi Krecek and Mary Periera (Ross Univ) presenting data from their survey of parasitologic practices in veterinary clinics. It is exciting to note that registration responses indicate that we will have most of the CVM/SVMs from the USA and Canada represented at this meeting.

Thanks in advance to Dr. JP Dubey for serving as the USDA sponsor. If you have any questions or suggestions, Dr. Dwight Bowman is taking the lead in coordinating the site logistics (ddb3@cornell.edu) and Karen Snowden is coordinating the program and scheduling (ksnowden@cvm.tamu.edu).

Future Parasitology Meetings

Future meetings of the AAVP

2012 SAN DIEGO, CA, August 4-7
2013 CHICAGO, IL, July 20-23
2014 DENVER, CO, July 26-29
2015 BOSTON, MA, July 11-14

American Society of Tropical Medicine & Hygiene (ASTMH) 2011

The 60th annual meeting of ASTMH will be held December 4-8 at the Philadelphia Marriot Downtown, Philadelphia PA, USA. http://www.astmh.org.

Conference of Research Workers in Animal Diseases (CRWAD) 2011

The 2011 CRWAD Meeting will be held December 4-6, at the Chicago Marriott, Downtown Magnificent Mile, Chicago, IL. AAVP continues to support the best student competition in the parasitology section of the CRWAD meeting. http://www.cvmbs.colostate.edu/mip/crwad/index.htm

AAVP Distinguished Parasitologist Award Recipient

Who's he?

When I first heard that I had been nominated for this prestigious award I thought they got the name wrong and it was the Extinguished not Distinguished Parasitologist award. Then I thought wow look at the people who have been given this award in the past and wondered "am I up to it"? Whatever the case I truly appreciate the honor bestowed on me and am especially grateful to former graduate students, colleagues, and most of all mentors that helped get me here.

I was born in Minnesota and at a young age moved to Colorado where I lived on a small farm with horses, pigs, sheep and cattle the primary livestock. I was an enthusiastic 4-H and FFA member, and decided I wanted to become a veterinarian. I worked a couple of summers at a local vet practice as poop scooper and even after that found that veterinary medicine was my calling. I received a DVM from Colorado State University and at the time of graduation, my draft board gave me the choice to volunteer as an officer and gentleman or be drafted. I chose the former and was eventually assigned to the US embassy in Copenhagen, Denmark where I inspected food for the troops in Germany and spent a winter in Ljubljana, Slovenia (then Yugoslavia). It was the first time I saw livers with *Dicrocoelium* and *Echinococcus* and I thought it interesting but so what.

The military is not where I wanted to spend a carrier so I went into a general, primarily dairy, practice in eastern New Mexico. After a year and a half I decided to seek greener pastures (during a combination dust and snow storm) to a place that met the following criterion: 1) green, at least some part of the year, 2) the trees were taller than me so because I could see the grain elevators 20 miles away and 3) did not have to make a 50 mile round trip if I wanted a beer. I spent the next nearly four years in a general, mostly dairy practice, on the north island of New Zealand. This practice experience was an eye opener as far as parasites were concerned. More calves died of lungworm than all other conditions combined and this strange phenomenon occurred in yearling calves where their eyes met in the middle of the head, due to dehydration, and a brownish diarrhea squirted across the pasture and the abomasum was as heavy as the rumen but only a few adult worms, if any, were found. This was before I knew anything about type II ostertagiosis.

Texas A&M University had a program in tropical veterinary medicine which included fellowships to work on infectious diseases of cattle in tropical climates. I received a MS in microbiology working on bovine babesiosis in Cali, Colombia. This project looked at the antigenic changes of *Babesia* spp. that enable the parasite to survive in a host that remains chronically infected but without disease. I then worked in Guyana looking at parasitic and other diseases in cattle in two different ecologic zones within that country. The most surprising thing encountered was the complete lack of liver flukes in a country that is largely a swamp. I thought I found a new species of *Ostertagia* that turned out to be *Sarwaria bubalis* (thanks Ralph Lichtenfels). My major professor Tom Galvin, more than any other a person, gave me an abiding interest in studying how parasites are successful. In graduate school I took a course, range science for dummies (applied ecology), which later lead to research looking at aspects of parasite/ pasture/ host interactions.

As I was about to finish my PhD at Texas A&M I was asked to stay for a year and help teach parasitology. That year has stretched to more than 35 years on the faculty engaged in research, diagnostics and teaching veterinary parasitology.

The primary focus of research, accomplished with the aid of many students, colleagues, livestock owners etc., has been directed to the epidemiology of parasites of grazing animals. The initial studies were done in tracer calves and lambs looking at the monthly acquisition of parasites from pastures. The cattle studies

were done in the gulf coast to determine the seasonality of gastrointestinal nematode and liver fluke transmission. The sheep studies were done in the Edwards plateau the primary center of sheep raising in Texas. One aside to the studies with sheep was the observation that *Haemonchus* winter arrest occurred in lambs that had been exposed to the parasite as nursing lambs and cleared of infection whereas lambs never exposed to pasture did not have arrested larvae. The application of the knowledge of when parasites were transmitted and how they survived unfavorable conditions either in the host or in the environment, to the control of disease caused by these parasites became the next step. One of the most difficult concepts to convey to students and producers is that controlling parasitic disease, not infection, should be our goal. This may be accomplished by management, the timely use of pharmaceuticals and genetic selection. I am convinced of a statement by a wise professor (Bob Pierson, Colorado State) "When you go into a new area you must find out three things: 1. the poisonous plants 2. the mineral deficiencies or excesses and 3. the parasites." The older I get the more I believe it.

There are several principals to grazing management, which vary in specificities that should be considered. High density short duration grazing systems lead to higher parasite loads. However, the quality of the pasture is increased and animals are able to tolerate more parasites. The greater number of animals on the pasture increases production of meat, milk or fiber per unit of pasture even though individual animals may not do as well. This reminds me of a quote, from a former student, (Charley Deyhle) "you can feed a cow out of a parasite problem but you can't worm a cow out of a feed problem." This may be true for cows but not necessarily for small ruminants, but still applies. Studies were done looking at differences in pasture management on both native and improved pastures. The short answerer to these trials is that there is more difference between years than there is between management systems. On native pastures combinations of different species was less likely to result in parasitic disease as well as sustain range condition. In west Texas, with summer rains, sheep suffer from haemonchosis whereas the goats are less likely to have problems. However on improved grass pastures further east goats turn white before the sheep apparently because of the switch from browsing to grazing by goats.

As a result of these studies recommendations were made to lessen exposure by treating livestock at times of the year when pasture contamination was low and parasites were vulnerable. With the pre-macrolide anthelmintics this approach resulted in lowered exposure and winter treatment of ewes is the only anthelmintic needed for adult sheep in most years on the Edwards plateau. Summer treatment of cows also lowered the detrimental effects of *Ostertagia* and resulted in increased calf weight. The strategic treatment of adult horses in the late winter and entering summer for cyathostomes and for bots entering the winter is an example of strategic treatment based on transmission patterns. In the years following the ivermectin revolution some parasites have disappeared completely, some are still there but of limited if any importance and others have adjusted to the new world order. Due at least in part to the residual effects of the drugs a strong selection pressure has changed the approach from whole herd preventative treatment to selective treatment. Treating only those animals with signs of disease, elevated fecal egg counts, and based reproductive status, age, nutrition, previous exposure etc. places less pressure on the drugs used over time. We have to keep in mind that depending on the population of animals administered the drugs and the forage availability different approaches are required.

Texas is a large state with several ecologic zones so that parasites occur that may be unusual elsewhere. Examples include *Hepatozoon americanum, Leishmania mexicana, Trypanosoma cruzi, Cytauxzoon felis*, *Babesia* spp. *Filaroides hirthi*, *Spirometra mansonoides*, *Lynxacarus radovskyi* and *Heterobilharzia americana*. Characterizing the disease, host range, pathogenesis, geographic occurrence, characteristics of the local environment, and diagnostic tests are areas where colleagues, students and collaborators have contributed to the understanding of disease associated with these organisms.

The animal industry is constantly changing. Twenty plus years ago penned white-tailed deer as well as red deer, sika deer, wapiti, various antelope, llama, alpaca, ostrich, emu, hedgehogs, pot bellied pigs, and ferrets etc. became the animal of the year. In some species they brought their parasites from home, others got experience with new exciting parasites that caused no discernible problem in the native hosts but were devastating in the new comers. An example of this is *Chandlerella quiscali* a normal inhabitant of the brain

ventricles in grackles that causes torticollis in young emus. These unusual hosts are a constant challenge and, in many instances, by the time we figured out what they had and some idea of what to do about it the host was gone as an economic entity. Others appear to have done well and there appears to be a whole new generation of white-tailed deer farmers finding out those parasites acceptable to a wild animal may not be in captive conditions where the level of exposure is greater.

Parasites have demonstrated their genetic potential by adjusting to drugs more quickly than they are developed so studies trying to prevent disease and prolong the usefulness of drugs have been a continued interest. At this time some level of anthelmintic resistance is seen in all common domestic species with the exception of cats and that's probably due to not looking closely enough. Resistance by *Ancylostoma* and *Toxocara* to both pyrantel and fenbendazole has been seen for twenty years in greyhound kennels and there is evidence of pyrantel resistance by *Ancylostoma* in foofoo dogs. Resistance to benzimidazoles and pyrantel by cyathostomes is wide spread in horses. In recent year's populations of *Parascaris* resistant to macrolides on the same farm as cyathostomes resistant to pyrantel and benzimidazoles requires a completely different approach to parasite control in foals to that in adult horses. Calves with ivermectin resistance to *Cooperia punctata* have been noticed for some time but unless the calves are sufficiently concentrated to cause clinical disease they will become resistant to the worm and compensatory gains make up for the earlier failure to thrive. However, *Haemonchus* in calves resistant to both macrolides and benzimidazoles has been seen in Texas. The circumstances leading to this situation appears to be similar to that reported elsewhere. We have challenged *Haemonchus* in small ruminants especially goats and it has won.

My teaching has been primarily with veterinary students, basic parasitology during the 2nd year and applied veterinary parasitology during the 4th (clinical) year. I also teach graduate students parasitic protozoology, parasitic helminthology and have directed or served on numerous graduate committees. I am also is involved in continuing education for veterinarians, livestock owners, public school teachers and an introduction to parasitology to high and middle school students. I also spend several hours each week with 4th year veterinary students at the local animal shelter where the level of parasitic infection is higher than seen in most veterinary practices. Among other things the students do skin scrapings, to identify ectoparasites, fecal exams, microscopic and antigen tests for heartworm, and they administer treatment and prophylactic anthelmintics and pesticides.

I also direct the diagnostic parasitology laboratory which serves the teaching hospital, the Texas Veterinary Medical Diagnostic Laboratory as well as providing services for producers and practicing veterinarians. Some of the duties associated with that include consulting with numerous veterinarians and some producers on all things parasitic and some artifacts. As a result of the conversations and observations, conditions real and imagined have been investigated and as with all things scientific there are always more questions than answers.

I was lucky enough to find another person with a similar passion for veterinary medicine in Lea Diamond. Lea is now the rancher and I help out from time to time. My children Jennifer and Rhys have turned out to be wonderful productive adults and two year old granddaughter Rhiana is a joy. I have been blessed by a life filled with many people who have helped me get here. The final slide for my presentation had several hundred names of friends, colleagues, mentors, students and there is insufficient space for all the names here. I thank them all and especially Merial and AAVP for this honor.

If you need names but I understand you may not **Bruce Abbitt, Bob Adams, Gary Adams, Nat Adams, Fred Aldrink, Sajeewa Amaradasa, Alessandro Amarante, Andy Anderson, Arturo Anglo, Lennox Applewhaite, Jimmy Armour, Bob Arther, Clay Ashley, Verina Atherly, John August, James Baggs, David Baker, Norm Baker, Norm Baldwin, Lora Ballweber, Gad Baneth, Issa Baradji, Tony Barcelona, Kerry Barling, John Barnes, Kristen Barnhardt, Ian Barger, Steve Barr, John Barta, Claudia Barton, Elizabeth Bass, Jim Bassett, Darrell Bay, Fuller Bazer, Marvin Beaman, Dave Bechtol, Byron Beck, Rural Bell, Tom Bello, Kylie Bendele, Garth Benell, Gerald Benz, Pedro Bernadino, Sekouba Bengaly, Kathy Bice, Glenda Bingham, Wes Bissett, Harvey Blackburn, Byron Blagburn, Alice Blue, Nancy Bolduc, Carlos Bonnot, Soualika Borie, Frank Bortle, Jim Bowen, Charlie Boyd, Dwight Bowman, Paul Brant, Gerald Bratton, Benny Brooks, Terry Brooks, Betsy Browder, Tony Brown, Wendy Brown, Ed Breitschwerdt, Connie Brunson, Robert Brundston, Ann Buchannan, Christine Budke, Gerald Buening, Dana Bushong, Chris Button, Dana Calhoun, Millard Calhoun, Bill Campbell, Juliette Caroll, Bruce Carpenter, Gabriel Carranza, Gordon Carstens, Kent Carter, Tom Cartright, Keith Chaffin, Bill Childers, Rick Ciordia, Hilary Clayton, Jason Cleere, Bill Clymer, Max Coats, Glen Cochnran, Leslie Coghlan, Tom Cogley, Noah Cohen, Ralph Cole, Rebecca Cole, Bill Collins, Tracy Colvin,**

Gary Conboy, George Conder, Dean Coombes, Raymond Cook, Don Corrier, Bob Corwin, Charley Courtney, Dick Crawford, Frank Cradock, Bill Craig, Don Craig, Eileen Craig, Bill Current, David Cruz, Tracy Cyr, John Dame, Ron Davey, Don Davis, Mallory Davis, Joe Dedrickson, John DeLoach, Andres de la Concha, Tom deMaar, Andy DeRosa, Abdul Razic Desouky, Joyce DeVaney, Mac Devin, Charley Deyhle, Lea Diamond, Sandy Dillard, Joe DiPietro, Don Dixon, Robert Dobson, Alan Donald, Barbara Doughty, Frank Douvres, Leona Dowling, Lynn Drawe, Bob Dressler, Bob Drolesky, Roger Drummond, Norm Dronen, Hal Drudge, JP Duby, Randy Dusik, Elizabeth Dykstra, Joan Dzieyc, Peggy Easterling, Scott Echols, Jenifer Edmonds, John Edwards, Amal El-Gayer, Gwen Elissalde, Nosur ElSayed, Frank Enos, Glen Epling, Noberto Espitia, Konrad Eugster, Sidney Ewing, Maarten Eysker, Clara Fenger, Buddy Faries, Daryl Farmer, Ron Fayer, Roger Feldman, Peter Fernandes, Niki Ferwerda, Ray Fetterer, Bob Field, Truman Fincher, Bob Fiske, Sheryl Fleming, Ken Fletcher, Jim Forbes, Bill Foreyt, David Forrest, Deb Forrester, Joe Fox, Jonathan Fradkin, Howard Franklin, Denny French Jason Fritzler, Tom Fuchs, Dick Fulton, Dean Gage, Alvin Gajadhar, Tom Galvin, Katherine Gamble, Ray Gamble, Scott Gardner, Lou Gasbarre, Celsa Garcia, Roberto Garcia, Eli Garrard, Pam Garrettson, Tim Geary, Howard Gibbs, Gail Gilbert, Jay Georgi, Angie Godby, Will Goff, Steve Golla, Jim Goodwin, Marquis Gordon, John George, Dave Gradstrom, David Graham, Hugh Graham, John Gray, Ian Gray, Bob Green, Craig Greene, Ellis Greiner, John Grieco, Robert Grieve, Cleet Griffin, Lawrence Gully, Tom Hairgrove, Charlie "chicken" Hall, Charlie "dog" Hall, Bruce Hammerberg, Beth Hammond, Patty Hannon, Michelle Harborth, Steve Hart, Gary Harwell, Connie Hatfield, Pat Hatfield, Tom Hatfield, Jim Hawkins, Mark Healey, Bruce Heath, Fred Heck, Gayman Helman, Doug Hepler, Rupert Herd, Harry Herlich, Mike Herron, Andrew Hitchcock, Marilyn Hinkle, Eric Hoberg, 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2011 Meeting Photos

2012 Membership Renewal

Please use this form or register on-line (www.aavp.org) for the payment of dues to the AAVP for 2012 and to register (optional) for an electronic subscription to Veterinary Parasitology (VetPar). The 2012 dues year runs from September 1, 2011 to August 31, 2012. Please complete the form and mail to the address below. Please pay your dues promptly. The success of the AAVP is at least in part dependent on its fiscal survival. Emeritus members: no dues are necessary; only address and e-mail updates; VetPar subscription optional.

PLEASE PRINT

Name _____
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Institution/Business Affiliation _____

Address _____

City _____ State/Country _____ ZIP _____

Telephone No. _____ Fax No. _____

e-mail address _____
(Please print clearly; your email is important if you want to receive reminders/information from AAVP and the on-line subscription of VetPar)

Area(s) of Interest, Research, Teaching, etc. _____
_____
_____

On-line Subscription to *Veterinary Parasitology*: ($37.00 annually, optional): Yes☐ No☐

Annual Dues: $30.00 ($10.00 for students) in U.S. Funds. Checks must be drawn on a U.S. bank. Make check payable to the American Association of Veterinary Parasitologists (AAVP). Please do not make the check out in the name of the Secretary/Treasurer. Checks from Corporations should include the name of the person for whom the dues are being paid. Cash is acceptable. You are welcome to pay ahead for multiple years. AAVP accepts Credit Cards (AmEx/MC/VISA) on-line or by contacting the Secretary/Treasurer.

Amount enclosed:

$30.00 regular dues only	☐
$10.00 student dues only	☐
$67.00 regular dues plus VetPar	☐
$47.00 student dues plus VetPar	☐

Return to:

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Secretary/Treasurer, AAVP
c/o Bayer HealthCare, Animal Health
P.O. Box 390
Shawnee, KS 66201 USA
913 268-2503; Fax 913 268 -2541
Email: bob.arther@bayer.com

If you have any questions about your dues status, please call or email Bob Arther.

2012 New Membership Application

AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS
FOUNDED 1956

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

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

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

Should you wish to become a member of the AAVP, please provide the following information and send this form and a check or cash (regular membership $30.00; student membership $10.00*, U.S. currency only or by credit card at ww.aavp.org) payable to the AAVP, to the Secretary/Treasurer at the address given below. The 2012 dues year runs from September 1, 2011 to August 31, 2012. As an AAVP member, an electronic subscription to Veterinary Parasitology (VetPar) is available annually for an additional $37.00.

Name and Academic Degree (s) _____ Institutional/Business Affiliation _____

Mailing Address (Office/Lab) _____ Title _____

Phone Number _____ Fax Number _____ Email Address (**required** to receive AAVP Newsletter and VetPar) _____

Area(s) of Interest, Research, Teaching, etc. _____

Amount enclosed (check one): $30.00 Regular dues only • $10.00 Student dues only •

$67.00 Regular dues + VetPar • $47.00 Student dues + VetPar •

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The American Association of Veterinary Parasitologists

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The American Association of Veterinary Parasitologists Newsletter is published three times each year with issues in February, June and October. Contributions to the Newsletter are highly encouraged and should be submitted by the 20th of the month prior to each date of issue.

AAVP Newsletter Deadlines for Submissions

Newsletter	Deadline
February 2012	January 27, 2012
June 2012	May 25, 2012
October 2012	September 28, 2012

Please contact the editor with questions regarding these dates.