AAVP Newsletter

American Association of Veterinary Parasitologists

June, 2010 Volume 32, Number 2

From the President

I hope everyone is looking as forward to our annual meeting in Atlanta as I am. Under the able leadership of our Vice President, Patrick Meeus, the program is coming together nicely and should provide for the usual quality that we've come to enjoy. Several topic sessions are planned including one planned by the Education committee, as well as the President's symposium Tuesday morning on anthelmintic resistance. The best AAVP student paper competition will continue with the opening presentation from the Intervet / Schering Plough outstanding graduate student. The AAVP board meeting will be on Saturday, July 31, and all committee chairs should be in attendance (or send a representative to provide a report). The business meeting will be on Monday, August 2. We've had a busy year and there are several items to discuss and vote on, so, please be sure to come.

Lastly, allow me to thank the executive board and the members of AAVP for making my year of service as president both rewarding and fun. It is gratifying to see so many young veterinary parasitologists becoming actively engaged in our profession and keep the rest of us on our toes! I am confident that Karen Snowden's upcoming term as president will bring good things for our Association and our members and I look forward to continuing to work with AAVP for many years to come.

Lora R. Ballweber, President, AAVP

FROM THE PRESIDENT **1**

FROM THE SECRETARY/TREASURER **2**

55TH ANNUAL MEETING OF THE AAVP **2**

55TH ANNUAL MEETING OF THE AAVP – PRELIMINARY PROGRAM 3

COMMITTEE REPORTS **9**

2010 AAVP NOMINATIONS COMMITTEE RESULTS 9
2010 AAVP AWARDS COMMITTEE RESULTS 10
AAVP-Distinguished Veterinary Parasitologist *10*
AAVP-Intervet / Schering Plough Outstanding Graduate Student Award *10*
AAVP-CAPC Graduate Student Award in Zoonotic Disease *10*
AAVP-Young Investigator Travel Grants *10*

ANNOUNCEMENTS **10**

VETERINARY EXTERN PROGRAM-SCWDS 10
REPORT ON NORTH AMERICAN VETERINARY MEDICAL EDUCATION CONSORTIUM (NAVMEC) 12
NEW CAPC HEARTWORM RECOMMENDATIONS 13
POSITION: ASSISTANT PROFESSOR, VETERINARY PARASITOLOGY 13
OPEN LETTER TO THE AAVP 14

DISTINGUISHED HONORS **14**

NATIONAL ACADEMY OF SCIENCES ELECTS DR. JITENDER P. DUBEY AS NEW MEMBER 14
DR. ELLIS GREINER HONORED BY WALT DISNEY CO. 15
DR. MIKE DRYDEN RECOGNIZED BY THE AMERICAN ASSOCIATION OF VETERINARY DERMATOLOGY 15

FUTURE PARASITOLOGY MEETINGS **15**

FUTURE MEETINGS OF THE AAVP 15
WORLD ASSOCIATION FOR THE ADVANCEMENT OF VETERINARY PARASITOLOGY 15

2010 MEMBERSHIP RENEWAL **15**

NEW MEMBERSHIP APPLICATION **15**

WAAVP AFRICA FOUNDATION SCHOLARSHIP ANNOUNCEMENT **16**

From the Secretary/Treasurer

The 55th Annual Meeting of the AAVP in Atlanta, GA, 31 July -3 August 2010, is fast approaching. All meeting functions will be held in the Loews Atlanta Midtown Hotel, 1065 Peachtree Road, Atlanta, GA 30309. Information regarding the meeting program and events can be found on the AAVP meeting website www.aavp.org.

Dr. Patrick Meeus, Program Chair, and the Program Committee have assembled an exciting scientific program. Please see Patrick's message in this newsletter for more details. The AAVP Board meeting will take place Saturday, 31 July, from 8:00 AM-1:00 PM in the Centennial Room. AAVP will again host a luncheon for graduate students and post-docs on Sunday, 1 August, from 12:00-1:30 PM in the Dunwoody Room to allow them to interact, to get to know each other better, and to elect a new student representative.

The AAVP business meeting, President's address, Distinguished Veterinary Parasitologist Presentation, and awards presentations are scheduled on Monday, 2 August, from 3:30-5:30 PM in Salon D of the Loews Hotel.

Pre-registration deadline for the meeting was 1 June. Late registrants can still register on-line at www.aavp.org or on-site at the Loews Hotel. Name badges, proceedings booklet, and conference handouts will be provided on-site at the registration booth beginning at 1:00 PM on Saturday, 31 August in the Ellington Prefunction area of the hotel.

On-site registrations and payments of dues can be made by cash, check or credit card (on-line). At the registration table, there will be several items for your action related to the meeting including:

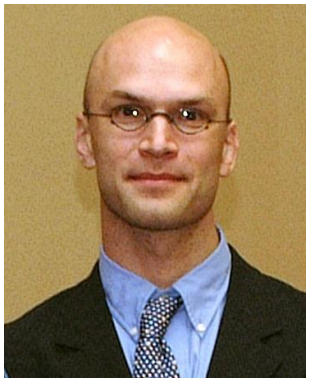
1) the membership dues list (check to see if your dues are current; if not please consider paying at the meeting),
2) the membership mailing list (confirm that I have your correct mailing address, phone, fax and email numbers) and
3) a list of AAVP committees for those who would like to volunteer (AAVP needs your participation and energy).

For those members who are unable to attend the meeting, the program Proceedings will not be mailed. Furthermore, no CD of the proceedings will be available for this year's meeting. Instead, the program with abstracts will be posted behind the password protected membership directory on the website. More information will be emailed to the membership by the new Secretary-Treasurer. I hope to see you in Atlanta.

Submitted by Alan A. Marchiondo, Secretary-Treasurer, AAVP.

55th Annual Meeting of the AAVP

Dear colleagues and friends,



The AAVP will hold its 55th Annual Meeting, from 31 July – 3 August 2010, at the brand new Loews Hotel in Atlanta, Georgia. The venue is close to many local attractions, restaurants and bars, and offers state-of-the-art meeting facilities. More information about the location can be found at www.aavp.org.

The theme of the meeting is "PARASITE EVOLUTION" - Veterinary parasites and their strategies to survive human intervention, around which we have now almost finalized an exciting scientific program. The meeting will branch out with invited speakers from adjacent research fields which will complement, as usual, a large number of submitted oral presentations on a variety of veterinary parasitology topics. Especially impressive this year is the large number of quality abstracts submitted by students and post-docs! A preliminary program is outlined below.

The annual meeting of the AAVP always is a very successful vehicle for the dissemination of the

latest data and views on the biology and control of parasites of veterinary importance. This forum is also unique as a professional society in its very broad based attendance with parasitologists from academia, industry, government and private practice. We hope you can join us, not only for the exciting science, but also to reconnect will your fellow veterinary parasitologists. Social events will be sponsored by Bayer on Saturday evening, and Merial on Sunday evening. Pfizer Animal Health will sponsor all coffee breaks. AAVP will again host a luncheon for graduate students and post-docs on Sunday at noon to allow them to interact, to get to know each other better, and to elect a new student representative.

The AAVP business meeting, President's address and awards presentations will be on Monday afternoon, August 2nd at 4:15 PM.

For those who did not pre-register, you can register at the on-site registration table in front of the meeting rooms (Ellington Ballroom pre-function area) starting on Saturday at 1:00 PM and all day on Sunday, 8:00 AM-5:00 PM, and half day on Monday, 8:00 AM-12:00 PM

A presenter's ready room will be available (Office2) throughout the meeting from 6:00 AM till 6:00 PM.

See you in Atlanta.

Patrick Meeus
2010 AAVP Program Chair

55th Annual Meeting of the AAVP – Preliminary Program

Saturday July 31, 2010

8:00 to 13:00		Centennial

AAVP Executive Committee Meeting & Luncheon.
All AAVP officers and committee chairs please plan to attend!

15:00 to 17:30	Plenary session	Salon D

Opening Remarks
President: Lora Balweber
Vice President and Program Chair: Patrick Meeus

Plenary session : *"PARASITE EVOLUTION" - Veterinary parasites and their strategies to survive human intervention*

3:15 1 Shift in rules of engagement for eradication of cattle fever ticks in the United States. *Adalberto A. Pérez de León*, J. Mathews Pound, Greta Schuster, Felix D. Guerrero, Ronald B. Davey, Robert J. Miller, Kimberly H. Lohmeyer, David G. Hewitt, J. Alfonso Ortega, Tyler A. Campbell, Alex E. Racelis, John A. Goolsby, Patricia Holman, Matthew Messenger, Dee Ellis, Roberta Duhaime, Liza Soliz, Andrew Y. Li, Pamela L. Phillips, Kevin B. Temeyer, Pete Teel, Stephen Wikel, Diane M. Kammlah, G. Gale Wagner, Kevin P. Varner, Danett K. Brake*

3:45 2 Clinically silent reemergence of *Babesia equi* infection in U. S. horses. *Don Knowles*

4:15 3 The human filariasis elimination program - lessons learned for veterinary medicine. *Charles MacKenzie*

4:45 Behind the scenes of "*Monsters inside me*" – to be confirmed.

19:00 - 21:00	Dinner	The Terrace

Bayer Welcome Social

Sunday August 1st, 2010

8:30 to 10:00	Session 1 Students	Salon D

8:30 4 Intervet/AAVP Outstanding Graduate Student Talk: On the Tracks of Erythema Migrans – Lone Star Ticks, Bacteria, and Disease. *Stephanie Heise*

9:00 5 Status of *Cytauxzoon felis* in wild felid populations in the United States. *Barbara C. Shock*; Staci M. Murphy; Laura L. Patton; Philip M. Shock; Colleen Olfenbuttel; Jeff Beringer; Suzanne Prange; Daniel M. Grove; Matthew Peek,; Mitchell Lockhart; Jay Butfiloski; Daymond W. Hughes; Sarah Bevins; Victor F. Nettles; Holly M. Brown; David S. Peterson; M.J. Yabsley.*

9:15 6 An Ongoing Study of the Effects of Prescribed Burns on Tick and Tick-borne Pathogen Prevalence. *Elizabeth R. Gleim*; M.J. Yabsley; Mike Conner; Michael Levin*

9:30 7 Environmental contamination of public use areas with *Toxocara* spp. and *Trichuris vulpis* in Athens, GA. *Jessica H. Murdock*; Joshua O. Cook; Adrienne B. Zercher; Dana Ambrose ; David Stallknecht; Ray M. Kaplan-; Andrew R. Moorhead*

9:45 8 Effect Of Exposure To Household Laundering And Drying On Eggs Of Common Canine Helminths. *Brian Neumann*; Courtney Mosley; Anne M. Zajac*

9:00 to 10:00	Session 2 Students	Salon E-F

9:00 9 Determining Virulence Factors in *Histomonas meleagridis*. *Elizabeth Carolyn Lynn*; Richard W. Gerhold; Larry R. McDougald; Robert Beckstead*

9:15 10 Molecular characterization of the *Histomonas meleagridis* complex. *Lori Lollis*

9:30 11 Altered Leukocyte Profiles in Turkey Poults Following a Primary Infection with *Eimeria adenoeides*. *Ujvala Deepthi Gadde*; Hilary David Chapman; Thilakar Rathinam; Gisela F. Erf*

9:45 12 Immunization of Northern Bobwhites With a Low Dose of *Eimeria lettyae* Provides Protection Against a High Dose Challenge. *Richard W. Gerhold*; A. Lorraine Fuller; Larry R. McDougald*

10:00 to 10:30	Pfizer coffee break	Terras

10:30 to 12:00	Session 3 Students	Salon D

10:30 13 Feasibility of Using Endoscopic Capsules in Dogs to Detect Intestinal Helminths. *Alice C.Y. Lee*; Norwood R. Neumann; Michael A. Ulrich; Dawn E. Manthei; Dwight D. Bowman*

10:45 14 Optimization and validation of a real time PCR assay for identification and quantification of Trichostrongyle nematodes in goats. *Jennifer N. Towner*; Andrew R. Moorhea; Ray M.*

11:00 15 Replicate fecal egg counts and sensitive detection methods decrease variability and improve the accuracy of fecal egg count reduction tests in horses. *Danielle E. Dimon; Ray M. Kaplan*

11:15 16 Toward a Further Optimization of a Larva Migration Inhibition Assay for Detection of Resistance to Macrocyclic Lactone Drugs in Equine Cyathostomins. *Daniel A. Zarate Rendon*; Ray M. Kaplan; Bob E. Storey*

11:30 17 Development of an in vitro bioassay to detect anthelmintic resistance in *Dirofilaria immitis*. *Christopher Charles Evans*; Andy R Moorehead; Bob E. Storey; Mike T Dzimianski; Ray M. Kaplan*

11:45 18 Geospatial patterns of reported resistance of *Dirofilaria immitis* to macrocyclic lactone drugs in Louisiana. *Cassan Pulaski*; Jb Malone; TB Spencer; JA Fletcher; Jc McCarroll*

10:30 to 11:45	Session 4 Students	Salon E-F

10:30 19 Indirect fluorescent antibody (IFA) method for detection of antibodies against *Hepatozoon americanum*. *Kelly Allen*; Sanjay Kapil; Eileen M. Johnson; Susan E. Little*

10:45 20 Characterization of Diversity of *Hepatozoon* spp. in Coyotes. *Lindsay Starkey*; Roger Panciera; Kelsey Paras; Misti West; Kelly Allen; Stephanie Heise; Michael Reiskind; Mason Reichard; Susan Little*

11:00 21 Prevalence of antibodies to *Trypanosoma cruzi*, *Toxoplasma gondii*, *Encephalitozoon cuniculi*, *Sarcocystis neurona*, *Besnoitia darlingi*, *and Neospora caninum* in North American opossums. *Alice E. Houk*; David G. Goodwin; Anne M. Zajac; Stephen C. Barr; J. P. Dubey; David S. Lindsay*

11:15 22 *Cysticercus ovis* infection and the Canadian sheep industry: an emerging problem. *Bradley D. De Wolf*; Paula I. Menzies; Andria Q. Jones; Andrew S. Peregrine; Jocelyn T. Jansen; Jennifer MacTavish*

11:30 23 Results of immunostimulation of dams with INF-gamma on the behavior of their pups congenitally infected with *Toxoplasma gondii*. *David G. Goodwin*; Terry Hrubec; Anne M. Zajac; Jeannine Strobl; Bradley Klein; David S. Lindsay*

11:45 24 Effect Of An Orange Oil Emulsion On Gastrointestinal Nematodes In Naturally Infected Sheep. *Casey Burke*; Joyce G. Foster; Anne M. Zajac*

12:00 to 14:00	Lunch break

14:00 to 15:30	Session 5 Student / Equine	Salon D

14:00 25 Toxicant-parasite interactions: the role of macroparasites in mercury dynamics within the gastrointestinal tract of mammalian hosts. *Ashley Linton*; Kimberlee B. Beckmen; Todd M. O'Hara; Mo D. Salman; Lora R. Ballweber*

14:15..26 A Role for Collagenase in the Filariid-*Wolbachia* Mutualism: *in situ* Characterization of MMPs, *W. pipientis*, and *Onchocerca volvulus*. *Michelle L. Gourley*; Rob Eversole; Charles Mackenzie*

14:30 27 A Survey of Parasites of Wild Caught Tokay Geckos (*Gekko gecko*) from Java, Indonesia. *Roxanne A. Charles*; M.J. Yabsley; Angela E. Ellis; Ashley M. Rogers; Katherine F. Smith*

14:45 28 The Effect of Water Salinity on the Distribution and Abundance of Snail Intermediate Host of *Opisthorchis viverrini* and Human Prevalence in Northeast Thailand. *Apiporn Suwannatrai*; Thitima Wongsaroj; John B. Malone; Kulwadee Suwannatrai; Jutharat Kulsantiwong; Supawadee Piratae; Chalida Thammasiri; Sattrachai Prasopdee; Panita Khampoosa; Rasamee Suwanwerakamtorn; Pairat Tarbsripair; Thidarat Boonmars; Somsak Sukchan; Jennifer C. McCarroll; Smarn Tesana*

15:00 29 Effect of two different chemical formulations of a commercial disinfectant on the development of *Parascaris equorum* eggs. *Jessica C. Gould*; Mary G. Rossano**

15:15 30 Larvicidal Efficacy of Fenbendazole Against a Macrocyclic Lactone-Resistant Isolate of *Parascaris equorum*. *Craig R. Reinemeyer*; Julio C. Prado; Wendy E. Vaala*

14:00 to 15:30	Session 6 Companion animal ecto	Salon E-F

14:00 31 Comparative Efficacy of Advantage® Topical Solution (Imidacloprid) and Comfortis® Chewable Tablets (Spinosad) for the Control of Fleas on Dogs. *Byron L. Blagburn*; Larry Cruthers; Jennifer Ketzis; Robert Arther; Wendell Davis; Iris Schroeder; Terry Settje; Jamie M. Butler*

14:15 32 Inhibition of flea (*Ctenocephalides felis*) feeding on dogs treated with dinotefuran, pyriproxfen, and permenthrin (Vectra 3D) based on quantitative polymerase chain reaction (qPCR) detection of a canine HMBS gene sequence. *Chengming Wang; Bernhard Kaltenboeck; Jane D. Mount; Joy V. Bowles; Jamie M. Butler; Sherry Wilson; Sheila Gross; Cathy Ball; Byron L. Blagburn**

14:30 33 Efficacy of topically applied dinotefuran formulations and orally administered spinosad tablets against the KS1 flea strain infesting dogs. *M. Dryden*; P Payne; V Smith; A McBride; D Ritchie*

14:45 34 Efficacy of flavored spinosad tablets administered orally to dogs in a Simulated Home Environment (SHE), for the control of existing flea (*Ctenocephalides felis*) infestations. *Daniel Snyder*

15:00 35 Rapid onset of action of spinosad against adult cat flea (*Ctenocephalides felis*) infestations on dogs. *Daniel Snyder*

15:15 36 Insecticide Resistance Profiles of Field-Collected Isolates of Cat Fleas (*Ctenocephalides felis*). *Michael K. Rust*; Byron L. Blagburn; Iris Schroeder; Sarah Weston*

15:30 to 16:00	**Pfizer coffee break**	**Terras**

16:00 to 17:30	**Session 7** **Parasite prevalence**	**Salon D**

16:00 37 Geospatial Analysis and Ecological Niche Modeling of Chagas Disease in Bolivia. *Paula Mischler*

16:15 38 Prevalence of canine vector-borne diseases in heartworm-tolerant Jindo dogs. *SungShik Shin*; Seok-Il Oh; DaeSung Oh; KyuSung Ahn; Kyung-Oh Cho*

16:30 39 Seroprevalence of *Borrelia burgdorferi*, *Anaplasma phagocytophilum*, *Ehrlichia canis* and *Dirofilaria immitis* among dogs in Canada. *Alain Villeneuve*; Jonas K. Goring; Lynne Marcotte; Sebastien Overvelde*

16:45 40 Seroprevalence of Heartworm, *Toxoplasma gondii,* FIV and FeLV Infections in Pet Cats in Bangkok and Suburban Area, Thailand. *Woraporn Sukhumavasi*; Mary L. Bellosa; Araceli Lucio-Forster; Janice L. Liotta; Alice C.Y. Lee; Pitcha Pornmingmas; Sudchit Chungpivat; Leif Lorentzen; Dwight D. Bowman; J. P. Dubey*

17:00 41 Seroprevalence of *Anoplocephala perfoliata* Infection Among Horses in West Coast States of the US. *Patrick Meeus*; Cari Lagrow; Steven Kania; Craig Reinemeyer; Vickie King; Sallie Cosgrove*

17:15 42 *Trypanosoma cruzi* infection in dogs in south central Louisiana. *Prixia del Mar Nieto*

16:00 to 17:30	**Session 8** **Wildlife**	**Salon E-F**

16:00 43 Baylisascaris procyonis infection in raccoons and dogs on Prince Edward Island, Canada. *Gary Conboy*; Tonya A Stewart; Amanda Taylor*

16:15 44 Distribution, prevalence and genetic characterization of *Baylisascaris procyonis* from selected regions of Georgia and Florida. *Emily L. Blizzard; Cheryl D. Davis; Scott Henke; David B. Long; Margaret Beck; Michael J. Yabsley**

16:30 45 Prevalence of *Baylisascaris procyonis* in Raccoons (*Procyon lotor*) from eastern Colorado. *Deanna J. Chavez; Ivy LeVan; Michael W. Miller; Lora R. Ballweber**

16:45 46 What's Killing Our Deer? Investigation of Biting Fly Vectors of Epizootic Hemorrhagic Disease in Texas. *Tracy Cyr*

17:00 47 White-Tailed Deer - Alternate Host for Babesia bovis? *Patricia Holman*

17:15 48 Identification, distribution and hosts of ticks in Kansas 2000 - 2007. *M. Dryden*; P Payne.; V Smith.; A McBride.; M Hobson*

17:30 49 Effects of Different Burning Regimes on Tick Populations in Rangelands. *Mason V. Reichard*; Kristen A. Baum*

19:00 - 21:00	**Dinner**	**The Terrace**

Merial Social

Monday August 2nd, 2010

8:30 to 10:00	**Session 9** **Education symposium**	**Salon D**

8:30 50 2009 AAVP Veterinary Parasitology Education Symposium. *Gary Conboy*

9:00 51 What is NAVMEC? *Karen Snowden*

9:30 52 Survey of parasitology teaching at North American veterinary colleges: initial results from the 2009 AAVP/CAPC Education Symposium. *Susan Little; Amy Edwards; Gary Conboy; Karen F. Snowden*

10:00 to 10:30	**Pfizer coffee break**	**Terras**

10:30 to 12:15	**Session 10** **Companion animal endo**	**Salon D**

10:30 53 Evaluation of testing and treatment procedures for heartworm (*Dirofilaria immitis*) in animal shelters in Georgia, South Carolina, and North Carolina. *Andrew R. Moorhead*; David S. Boardman; Ruth D. Usher; Natalie D. Duncan; Maria T. Correa*

10:45 54 Genetic changes in *Dirofilaria immitis* populations possibly associated with exposure to macrocyclic lactones. *Timothy G. Geary*; Catherine Bourguinat; Byron L. Blagburn; Kathy Keller; Rudolph Schenker; Roger K. Prichard*

11:00 55 Performance Comparison of a New, In-Clinic Method for the Detection of Canine Heartworm Antigen. *Alice C.Y. Lee*; Dwight D. Bowman; Araceli Lucio-Forster; Melissa J. Beal; Janice L. Liotta; Ray Dillon*

11:15 56 Efficacy of a Single Oral Administration of Milbemycin Oxime (Interceptor® Flavor Tabs® and Sentinel® Flavor Tabs®) Against Natural Infections of *Ancylostoma braziliense* in Dogs. *Stephen Bienhoff*

11:30 57 The Efficacy of Milbemycin Oxime Against Migrating Pre-Adult *Spirocerca lupi* in Experimentally Infected Dogs. *Dawid J. Kok*; Rudolph Schenker*

11:45 58 The Efficacy of Milbemycin Oxime to Protect Dogs Against Infection with *Spirocerca lupi* (Nematoda: Spirurida) in an Endemic Area. *Dawid J. Kok; Rudolph Schenker*

12:15 59 Attributes, Knowledge, Beliefs, and Behaviors Relating to Prevention of Heartworm Infection among Members of a National Hunting Dog Club. *Sharron Patton*; Amanda Lutzy; Barton Rohrbach*

10:30 to 12:15	**Session 11 Protozoa**	**Salon E-F**

10:30 60 *Isospora suis* and its association with post-weaning performance on three Ontario swine farms. *Andrea Aliaga-Leyton; Robert M. Friendship; Cate Dewey; Cory Todd; Andrew S. Peregrine**

10:45 61 Adaptive Evolution in *Toxoplasma gondii* ROP16 and ROP18 Genes Involved in Parasite Invasion. *Hany M. Elsheikha*; Miao-Miao Liu; Zi-Guo Yuan; Rui-Qing Lin; Xing-Quan Zhu*

11:00 62 Extracellular *pH* Governs the Entry and Phenotypic Plasticity of *Neospora caninum*. *Hany Elsheikha*

11:15 63 Characterization of giardin protein expression during encystation of *Giardia duodenalis*. *Mark C. Jenkins*; Celia O'Brien; Dumitru Macarasin; Jeffrey Karns; Monica Santin-Duran; Ronald Fayer*

11:30 64 Survival of *Trypanosoma cruzi* in Aca' juice: Implications for food borne Chagas disease outbreaks. *David Lindsay*

11:45 65 Morphometrics of Assemblages of *Giardia duodenalis* Cysts from the Feces of Dogs and Cats. *Dwight D. Bowman*; Stephanie B. Yager; Britta A. Okyere; Bo Li; Kyuhyung D. Kang; Heejeong Youn; Marissa Karpoff; Hussni O. Mohammed; Araceli Lucio-Forster; Janice L. Liotta*

12:00 66 A new *Besnoitia* sp. f rom the southern plains woodrat (*Neotoma micropus*). *J. P. Dubey*; M.J. Yabsley*

12:15 to 13:30	**Lunch**	

13:30 to 15:45	**Session 12 Interesting clinical cases**	**Salon D**

13:30 67 Equine abortion caused by *Encephalitozoon cuniculi*. *Karen F. Snowden*; Travis Heskitt; Barbara Sheppard*

13:45 68 Unusual Cause of Ectoparasitic Pruritus in a Horse. *Araceli Lucio-Forster*; Mary C. Smith; Ann Georgi Leonard, Ithaca Artisan; Dwight D. Bowman*

14:00 69 Aberrant migration of *Dirofilaria immitis* in three dogs - case report. *Rhonda Pinckney*; Tara E Paterson*

14:15 70 Autochtonal *Dirofilaria repens* in a dog in The Netherlands. *Paul A.M. Overgaauw*; Evert P. Van Dijk*

14:30 71 Uncommon Complications in a Dog with *Dirofilaria immitis*. *Jennifer E. Carter*; Guillaume Chanoit; Cheryl Kata*

14:45 72 *Babesia canis rossi* Infection in a Texas Dog *Mason V. Reichard*; Robin W. Allison; Todd J. Yeagley*

15:00 73 Hepatic alveolar echinococcosis in a dog in British Columbia, Canada. *Andrew S. Peregrine*; Emily Jenkins; Brian Barnes; Shannon Johnson; Janet Hill; Lydden Polley; Ian K. Barker; Bruno Gottstein*

15:15 74 The use of ponazuril to treat a *Toxoplasma gondii* outbreak in a zoo setting. *Jennifer A. Spencer*; Leah A. Kuhnt; John F. Roberts; Byron L. Blagburn; Bishop Thompson*

15:30 75 Parasitologic Pet Peeves. *Craig R. Reinemeyer*; Wendell L. Davis*

15:45 to 16:15	**Pfizer coffee break**	**Terras**

16:15 to 18:00	**AAVP Business Meeting**	**Salon D**

16:15 PRESIDENTIAL ADDRESS. Lora Ballweber

16:45 AAVP BUSINESS MEETING

17:45 AAVP AWARDS / PICTURES
All award recipients, including student travel grant awardees, and all students in the paper competition, please plan to attend!

Dinner on your own and school reunions at AVMA.

Tuesday August 3rd, 2010

8:00 to 9:30	**Session 13 Anthelmintic efficacy / resistance**	**Salon D**

8:00 76 Pharmacological Characterization of New Cholinergic Anthelmintics in *C. elegans*. *Timothy G. Geary*; Charles Viau; Elizabeth Ruiz Lancheros; Abdel Francis; Tita N. Walter*

8:15 77 Anti-Parasitic Efficacy of Herb Extracts on Ovine, Equine, and Canine Strongylid Eggs and Larvae. *Heejeong Youn*; Kyonghee Kim; Yeongsuk Lim; Kyongeun Lee; Bongkyun Park; Janice L. Liotta; Clement Alawa; Araceli Lucio-Forster; Dwight D. Bowman*

8:30 78 On the Mode of Action of Tribendimidine. *Alan P. Robertson*; John A Carr; Sreekanth Puttachary; Santosh Pandey; Richard J. Martin*

8:45 79 Dose titration effect of *Sericea lespedeza* feed pellets on gastrointestinal nematode infection in lambs.

James E. Miller; Thomas H. Terrell; Joan M. Burke; Jorge A. Mosjidis; Niki C. Whitley*

9:00 80 Investigating Candidate Resistance Genes in an Ivermectin-resistant Isolate of *Haemonchus contortus*. *Sally M. Williamson*; Gerald C. Coles; Samantha McCavera; Adrian J. Wolstenholme*

9:15 81 Multiple Anthelmintic Resistance on a Llama Farm in the Southeastern United States. *Bob E. Storey*; Sue B. Howell; Anand N. Vidyashankar; Lisa H. Williamson; Ray M. Kaplan*

8:00 to 9:30	Session 14 Helminth efficacy / diagnosis / impact	Salon E-F

8:00 82 A Pilot Study on the Effect of an Integrated Control Program of *Fasciola hepatica* in Cajamarca, Peru. *Francisco Raunelli*; Sergio Gonzalez; Jorge Guerrero*

8:15 83 Coprological Evaluation of Pour-on and Injectable Formulation of Moxidectin in Beef Cattle. *J.G. Powell*; S.A. Gunter; C.A. Tucker; J.L. Reynolds; Z.B. Johnson*

8:30 84 The Effects of *Cooperia punctata* on cattle productivity. *Bert E. Stromberg*; Louis C. Gasbarre; Audie Waite; David T. Bechtol; Michael S. Brown; Nicholas Robinson; Erik Olson; Harold Newcomb*

8:45 85 Modification and further evaluation of a fluorescein-labeled peanut agglutinin test for identification of *Haemonchus contortus* ova in fecal samples and findings of note since the inception of offering the diagnostic test. *Janell K. Bishop-Stewart*; ME Jurasek; JA Hall; JM O'Hara, O; J. Snyder; ML Kent*

9:00 86 Comparison of a McMaster's Chamber with increased detection sensitivity to the Stoll and Modified Wisconsin Fecal Egg Count Methods. *B. Howell*; Bob E. Storey; Ray M. Kaplan*

9:30 to 10:00	Pfizer coffee break	Terras

10:00 to 11:30	Session 15 President's symposium	Salon D

10:00 87 Molecular Mechanisms of Resistance : Nicotinic and Macrocyclic Lactone Anthelmintics. *Richard J. Martin*; Alan P. Robertson*

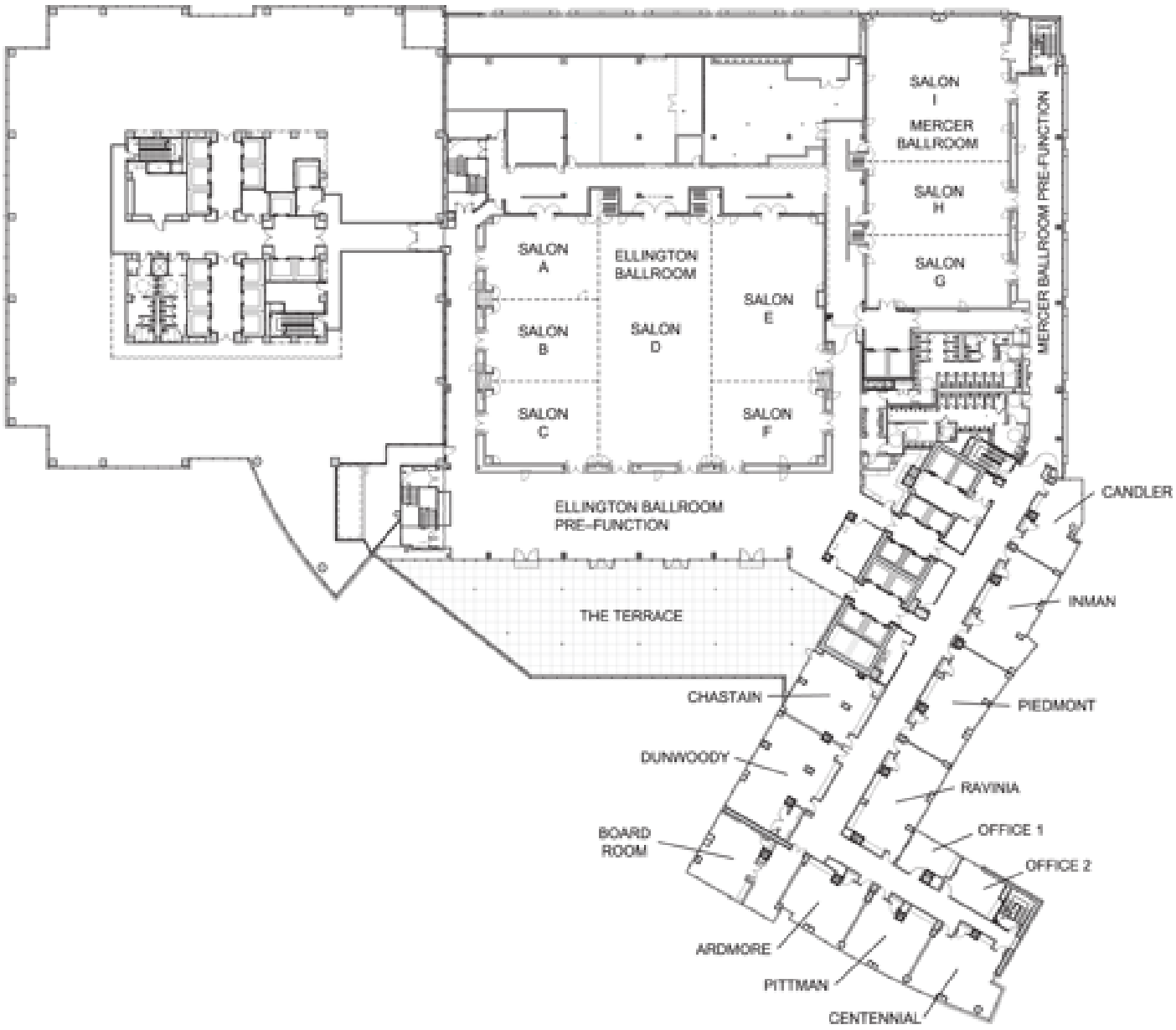
10:30 88 Molecular mechanisms of resistance to benzimidazole and macrocyclic lactone anthelmintics. *Roger Prichard*

10:30 89 Cattle Internal Parasitism and Deworming Effectiveness from the 2008 USDA NAHMS Beef Cow/Calf Study. *Bert E. Stromberg*; Louis C. Gasbarre; Lora R. Ballweber; David A. Dargatz; Judy M. Rodriguez; Dante S. Zarlenga*

11:00 AM – *MEETING ADJOURNS*
- SAFE TRAVELS

Submitted by Patrick Meeus,
AAVP Program Chair

Diagram of the Loews Hotel in Atlanta, Georgia



Committee Reports

2010 AAVP Nominations Committee Results

Many thanks to committee members, Thomas M. Craig, George A. Conder, Ellis C. Greiner, Tammi Krecek, and Thomas R. Klei for helping me get the ballot together in a timely fashion. Each committee member suggested nominees for the open positions of Vice President and two new members of the Nominations Committee. This list was then ranked by the committee and the final ballot was completed. Nominees were contacted and biographies collected.

The membership returned 180 total electronic ballots, 32 less than last year (which was up 32 ballots from the year before). On one of the ballots, the portion dealing with the nominations committee was disqualified because the person voted for more than two candidates.

A special thanks to everyone who agreed to run for AAVP offices; for those who did not win we hope you will consider running again.

THE WINNERS ARE:

VICE PRESIDENT
ALAN A. MARCHIONDO

SECRETARY/TREASURER
ROBERT G. ARTHER

NOMINATING COMMITTEE
THOMAS J. NOLAN

JAMES E. MILLER

Submitted by Dwight D. Bowman,
Chair, AAVP Nominations Committee.

2010 AAVP Awards Committee Results

AAVP-Distinguished Veterinary Parasitologist

George Conder has been selected as the 2010 Distinguished Veterinary Parasitologist. This is the society's most prestigious award and honors the outstanding contributions of an AAVP member to the advancement of veterinary parasitology. Dr. Conder's biography and photograph will be featured in the AAVP 2010 Annual Meeting's Proceedings. Congratulations to George for this honorable award!

AAVP-Intervet / Schering Plough Outstanding Graduate Student Award

Stephanie Heise, of Oklahoma State University, has been selected as the recipient of the 2010 AAVP-Intervet / Schering Plough Outstanding Graduate Student Award. Congratulations! Stephanie will receive reimbursement of travel expenses by the AAVP, an engraved plaque, and a monetary award of $1000 provided by Intervet / Schering-Plough. In addition, she will give a 30-minute talk at the AAVP meeting.

AAVP-CAPC Graduate Student Award in Zoonotic Disease

Sriveny Dangoudoubiyam, of Purdue University, has been selected as the recipient of the AAVP-CAPC Graduate Student Award in Zoonotic Disease – for her research on *Baylisascaris procyonis*. Congratulations! Sriveny will receive a $500 Young Investigator Travel Grant, an engraved plaque, and a monetary award of $1000 provided by CAPC.

AAVP-Young Investigator Travel Grants

The AAVP Awards Committee has selected the following fourteen students to receive Young Investigator Travel Grants, to offset expenses associated with attending the AAVP meeting in Atlanta. Congratulations to the recipients! Each student will be presenting their abstracts as part of the scientific program and may choose to enter the Best Student Paper Competition as well. The Best Student Paper competition is sponsored by Bayer and a 1st and 2nd place award is given with $500.00 and $300.00 honorariums, respectively.

Alice Houk	Virginia Tech
Alice Lee	Cornell University
Ashley Linton	Colorado State University
Brad De Wolf	University of Guelph
Brian Neumann	Virginia Tech
Casey Burke	Virginia Tech
Christopher Evans	University of Georgia
Daniel Zarate	University of Georgia
Danielle Dimon	University of Georgia
David Goodwin	Virginia Tech
Jennifer Towner	University of Georgia
Ujvala Gadde	University of Arkansas
Kelly Allen	Oklahoma State University
Lindsay Starkey	Oklahoma State University

Submitted by Andrew Peregrine,
Chair, AAVP Awards Committee

Announcements

Veterinary Extern Program-SCWDS

The Southeastern Cooperative Wildlife Disease Study (SCWDS) is a special unit within the College of Veterinary Medicine at the University of Georgia. SCWDS welcomes participation from junior or senior veterinary students from all accredited veterinary

colleges in the form of an externship program.

Eligibility for the Externship: Within the limitations of SCWDS personnel time and space availability, any third- or fourth-year student in good academic standing from an accredited college of veterinary medicine is eligible for the externship. At present, SCWDS cannot accommodate more than 2 persons simultaneously; therefore, students with the best qualifications, as demonstrated by resume and academic standing, will be chosen for a given time period.

How to Apply: Students should apply by sending: 1) a 1-page letter of intent to Dr. Sonia Hernandez at shernandez@warnell.uga.edu, 2) a general resume, 3) the time period(s) preferred for the externship and 4) a letter sent from the academic dean at his/her college indicating approval of the externship.

Length of Externship: The length of externship is flexible but must be at least 3 weeks and should not exceed 12 weeks.

Enrollment in the Externship Program: Once an invitation for an externship is extended, the student must make arrangements to be enrolled in an appropriate fashion in his/her college. Students cannot participate in the SCWDS externship program during their between-term break or “free time” without special permission of Dr. Hernandez. A faculty member from the veterinary college of origin should be designated as responsible for the conduct of the extern. Each participant should have his/her own health insurance.

Housing and Financial Assistance: Housing and other living costs are not provided for externs during their stay in Athens, Georgia. If work assignments are made at other locations, the extern’s travel costs for housing, transportation, and food will be reimbursed as it is for other SCWDS personnel. Ms. Jenny Pate is a good person to contact concerning housing in Athens.

Externship programs should be arranged at least 3 months in advance of the starting date.

Purpose/Objectives of the Externship: The primary purpose of the externship is to expose the veterinary student to the many aspects of wildlife population medicine. Major health objectives are to acquaint the veterinary student with (1) the role of veterinarians in the maintenance of healthy wildlife populations, (2) the interaction of wildlife management and wildlife health, and (3) examples of major diseases of free-ranging wildlife. Treatment of individual wild animals for those illnesses or injuries is NOT an aspect of this externship.

Externship Activities: The extern’s activities will be greatly dependent upon work in progress at SCWDS during the time period. An effort will be made to expose the student to a broad variety of experiences. Students will participate in wildlife mortality investigations and ongoing wildlife disease research. When field trips are available, participation will be required. The student will be expected to respond to questions pertaining to assigned readings, lectures, and field experiences. Informal lectures and review of gross lesions of wildlife diseases are presented as time permits. The externship program is a team teaching effort, and the extern will be assigned to various staff members during the program.

Evaluation of the Extern: Formal tests will not be given. Dr. Hernandez, in consultation with other SCWDS staff members, will evaluate the extern in the format provided by the veterinary college of origin. Strong consideration will be given to work participation, demonstration of academic capability, and on the ability of the student to project a professional image.

Submitted by Alan A. Marchiondo, Secretary-Treasurer, AAVP.

Report on North American Veterinary Medical Education Consortium (NAVMEC)

Approximately 160 participants in the NAVMEC meeting #2 represented a wide range of colleges, professional groups, industry and other commercial ventures. This number was a significant increase from the first meeting that had approximately 90 participants. The vast majority of the participants at this second meeting were administrators and faculty from US colleges/schools of veterinary medicine. The AAVP was one of about 12 professional specialty groups with representation. Additionally there were representatives from multiple animal health/nutrition companies, from state and national veterinary licensing boards, from several business development/marketing companies, from the AVMA and AAVMC, a few private practitioners, and a few international participants. A list of participants with their contact information is available from K. Snowden.

In a quick review, the focus of the first meeting (Feb, 2010 in Las Vegas, NV) was "societal needs from the veterinary medical profession" as well as the "future skills and competencies" of graduates in the next 10 - 20 years. A summary and a full report from both meetings can be found at the website: http://www.aavmc.org/navmec.htm.

The focus of this second meeting was "Educational Models". The meeting started with a review of some of the major concerns that were identified in the first meeting including:

1) high student debt load
2) long duration of curriculum (typically 4+4 years of undergraduate and professional training)
3) ever increasing knowledge base and novel technological developments that cannot be effectively compressed into a finite curriculum. Therefore there is an increasing emphasis on "life-long learning" and "self-directed learning"
4) increasing financial burden on colleges/schools of veterinary medicine with decreasing state funding support

During the first day there were multiple speakers addressing topics such as adult learning, new multimedia technologies, and two speakers gave a snapshot of current trends in medical and dental education curricular models. In an additional presentation, a new funded program at Michigan State Univ. called VetICE is developing specific training materials including teaching materials and power point lectures that can subsequently be purchased as a "ready to use" course for use in other veterinary institutions.

The primary focus of the meeting was to evaluate existing models of the veterinary curricula and to look for new ways to improve those approaches. The models included: traditional tracking, traditional non-tracking, modular, Western distributive (problem-based learning first years and clinical training in practices, no teaching hospital), Calgary distributive (integrated didactic and clinical training with no teaching hospital), Caribbean distributive (3 years didactic, 4th year at another CVM teaching hospital), Glasgow European (5 years post-secondary school) and 2+2 model (basic sciences taught with parallel coursework at 2 universities while 3rd and 4th years taught at the university with a teaching hospital). In addition, a new model was proposed that reduced the length of training, recommended broad use of distance education and on-line courses, and the model did not have a teaching hospital component. Breakout groups of 9 - 15 participants were assigned a model to review for its strengths, weaknesses and improvements. Then, the entire group reconvened for short presentations and discussions about each model.

For me, the value of the exercise was not the "big picture" of selecting the best model for veterinary medical education, but there were lots of great ideas and details to integrate into or to implement in existing programs for cumulative improvements in each model curriculum. There was little focus on the curricular details of core courses or the contact time allotted for various courses, so little time was delegated specifically to parasitology. However, I think that it valuable for the AAVP to have representation (along with other specialty organizations) in the process of what could be an important turning point in veterinary medical training, accreditation and licensure.

I am happy to provide further materials or information about the NAVMEC program, or to have discussions with interested AAVP members.

Submitted by Karen Snowden
President-Elect AAVP

New CAPC Heartworm Recommendations

The new CAPC heartworm recommendations for canines can be found at the website: http://capcvet.org/recommendations/heartwormdog.html

Recommendations for felines can be found at the website: http://capcvet.org/recommendations/heartwormcat.html.

Each document discusses the life cycle and stages of heartworm infections, disease, prevalence, transmission, prepatent period, environmental factors, pathogenesis, diagnosis, treatment, prognosis, prevention, and public health considerations for canines and felines.

Position: Assistant Professor, Veterinary Parasitology

The Gluck Equine Research Center, Department of Veterinary Science, University of Kentucky, invites applications for a tenure track position in veterinary parasitology. The successful candidate will join 22 other faculty members at the Gluck Center in conducting equine research in six areas:

> genetics/genomics, infections disease and immunology, musculoskeletal science, parasitology, pharmacology/toxicology and reproductive health as well as faculty at the Livestock Disease Diagnostic Center.

Qualifications require a PhD and/or DVM/PhD or equivalent. Experience working in the area of helminthology using modern laboratory techniques is preferred.

The position is 100% research. Establishment of an externally-funded independent research program in equine helminthology will be required. Opportunities are available for collaborative studies with other scientist in the department of veterinary science and across the university. Also, cooperative research with colleagues nationally and internationally is encouraged. The candidate will be expected to publish in refereed journals as well as lay publications.

The willingness and ability to relate to the equine industry and veterinarians through oral presentations, consultations and written material is desired. Training of graduate students is a major component of this position. Service on departmental, college and university committees is expected as well as involvement in local, state and national professional organizations.

Two equid herds are available for research studies including a drug-resistant herd and a herd infected with all major internal parasites. The position is located in Lexington, Ky., a city of 300,000 residents in the heart of the horse capital of the world. Lexington contains many cultural amenities, shopping, outdoor recreation and horse facilities such as Keeneland Race Course, The Red Mile (harness racing track) and the Kentucky Horse Park, and hundreds of horse farms and large equine veterinary hospitals.

The University of Kentucky is committed to a policy of providing employment opportunities to all qualified people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, marital status, age, veteran status, or physical or mental disability.

• The University of Kentucky is an equal opportunity university. We encourage applications from women, minorities, and all interested and qualified people.

Review of applications will begin August 1 and will and will continue until a suitable candidate is identified.

A letter of application together with a curriculum vitae and the names of three references should be sent to Dr. Edward Squires, Chair Search Committee, 108 Gluck Equine Research Center, Department of Veterinary Science, University of Kentucky, Lexington, KY 40546-0099 or email Edward.squires@uky.edu.

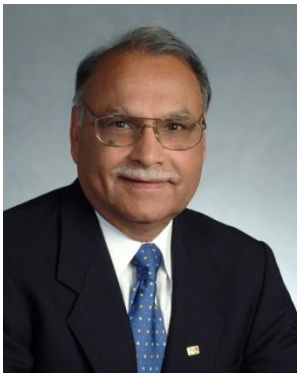
Open Letter to the AAVP

My name is Robert J. Greenwald D.V.M. and I have been a practicing veterinarian for 47 yrs, with a history of inventing the first disposable fecal diagnostic device about 40 yrs ago. As I am sure you are aware, such simple flotation techniques have been downgraded by CAPC. Initially I bristled at their view, but after doing research of my own and with the help of parasitologists, I came to realize that centrifugation was definitely more accurate than simple flotation. And hence I started on an almost 4 year endeavor to develop the best, cleanest method of centrifugal, or simple flotation analysis. Those that have used this invention love it, and I would like to be able to give a gratis box to every professor of parasitology at every veterinary school. But I want the professor to request that gratis box, and hence I would like to send them the website that I am developing so that they can see the test and ask for a box if they wish. To do that I need their email addresses. Dr. Tom Nolan graciously gave me the below information and hence I am writing you.

The web site for the new invention is www.squeezetest.us Any Professor wanting the gratis box can just write me at robertgreenwald@yahoo.com and I will send it to them. Thank you so much for your kind attention and for any help you can give me.

Sincerely,
Bob G.

Distinguished Honors



National Academy of Sciences Elects Dr. Jitender P. Dubey as New Member

Dr. Jitender P. Dubey, a Microbiologist with the USDA ARS Animal Parasitic Diseases Laboratory, was elected to membership in the National Academy of Sciences on April 27, 2010. Those familiar with the remarkable career of Dr. Dubey know that this honor is well deserved.

Dr. J.P. Dubey is recognized for his highly productive career and outstanding contributions to the mission of the Agricultural Research Service, U.S. Department of Agriculture. He has achieved significant international recognition from his peers in agriculture, veterinary medicine, and public health. He is recognized for contributions to the control and biology of three major parasitic diseases of livestock and humans (toxoplasmosis, neosporosis, and equine protozoal myeloencephalitis or EPM) caused by single-celled parasites, *Toxoplasma gondii, Neospora caninum,* and *Sarcocystis neurona*, respectively. There are no effective vaccines or drugs to eliminate these parasites in tissues. Control measures for these diseases and/or prevention of transmission to humans are based on farm management practices and hygienic measures based largely on the research that Dr. Dubey has published.

Dr. Dubey has received awards from many international organizations, including the most highly cited author in Animal Sciences worldwide for the decade that ended in 2001 by Current Contents, Institute of Scientific Information, U.K. He has more than 1200 peer reviewed publications, many of them in high impact journals (Science, Nature,

Proceedings National Academy of Sciences, PLOS), and has collaborated with more than 400 scientists worldwide.

During the recent 147th annual meeting, the National Academy of Sciences elected 72 new members (and 18 foreign associates) in recognition of their distinguished and continuing achievements in original research. Election to the Academy is considered one of the highest honors that can be accorded a U.S. scientist or engineer. Dr. Dubey joins another Beltsville scientist in the Academy.

Dr. Ellis Greiner Honored by Walt Disney Co.

Walt Disney CO. donated $20,000 to the University of Florida College of Veterinary Medicine in honor of Ellis Greiner, PhD, a longtime contributor to Disney's Animal Kingdom. The donation will fund advanced continuing education programs for the theme park's veterinary staff.

Submitted by Ann Donoghue,
Editorial Board, AAVP

Dr. Mike Dryden Recognized by the American Association of Veterinary Dermatology

The American Academy of Veterinary Dermatology has recognized Dr. Michael Dryden for excellence in teaching. Dr. Dryden, veterinarian and professor of veterinary parasitology in Kansas State University's department of diagnostic medicine and pathobiology, received the academy's Excellence in Teaching Award for his contributions to the education of future veterinary dermatologists. Dryden was recognized at the April 2010 meeting of the organization in Portland, Oregon.

Submitted by Ann Donoghue,
Editorial Board, AAVP

Future Parasitology meetings

Future meetings of the AAVP

56th meeting in 2011 – St. Louis, MO
57th meeting in 2012 – San Diego, CA
58th meeting in 2013 – Chicago, IL
59th meeting in 2014 – Denver, CO

World Association for the Advancement of Veterinary Parasitology

August 2011, Buenos Aires, Argentina http://www.waavp.org. See scholarship announcement on the following page.

2010 Membership Renewal

2009 - 2010 AAVP Renewal Form.doc

New Membership Application

2010 New Member Application Form.doc

WAAVP Africa Foundation Scholarship Announcement

World Association for the Advancement of Veterinary Parasitology African Foundation (WAAVP AF)

The WAAVP AF will provide a limited number of partial scholarships to assist veterinary parasitologists from Africa to attend the 23rd WAAVP Conference to be held in Buenos Aires, Argentina, 21 - 25 August 2011.

Applications should include:

- A copy of the abstract(s) for paper(s) or poster(s) which were submitted to the 23rd WAAVP Conference Convenor
- A letter of recommendation from a current supervisor
- An indication of how other costs (beyond a WAAVP AF grant) will be met (i.e. possibility of obtaining supplemental funds elsewhere)
- Other envisaged contributions to the conference (i.e. workshop participant, chairperson of session, etc.) and
- A brief indication of how the applicant sees attendance contributing to his/her development in veterinary parasitology.

Submit applications to:

Dr Rosina (Tammi) Krecek
Ross University School of Veterinary Medicine
630 US Highway 1, Suite 600
North Brunswick
New Jersey 08902-3311 USA
Tel: 1 869 465 4161 X119
Fax: 1 869 465 6156
E-mail: tkrecek@rossvet.edu.kn

DEADLINE: 15 January 2011

The American Association of Veterinary Parasitologists

Editor: Jenifer Edmonds
Johnson Research
24007 Highway 20/26
Parma, ID 83660
Phone: (208) 722-5829
Email: jedmonds@johnsonresearchllc.com

Editorial Board: Ann Donoghue, Heather Stockdale, Kristine Edwards, Tom Letonja, Michael Yabsley

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
October 2010	September 25, 2010
February 2011	January 28, 2011
June 2011	May 27, 2011

Please contact the editor with questions regarding these dates.