

AAVP Newsletter

American Association of Veterinary Parasitologists

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AAVP Mission Statement

The mission of the AAVP is to lead and partner with our members in advancing veterinary parasitology education, research, practice and service to improve human and animal health. AAVP members are practitioners, educators, and scientists from academia, industry, and government. We will accomplish this mission by providing:

- An annual conference for sharing research and educational advances
- Support to students interested in veterinary parasitology
- A bi-annual educators symposium
- Electronic discussion forums
- Veterinary publications
- Speakers and programs to veterinary professional meetings

From the President



Doug Carithers
President

Dear AAVP colleagues,

What a wild ride we've been on for the past 15 months. My hands are battered and bruised from simply trying to hold onto the reins and get through this bumpy ride that was forced on us. Over the past year-plus there have been a lot of necessary rapid adjustments, much discussion, many compromises, the threat of losing most of our association's cash reserves, major scrambling, business-related poker, stress and angst. However, there have also been both small and large victories that make it all worthwhile. Our Student Representatives, as members of the Executive Committee, have consistently impressed us with their can-do attitude, agility and willingness to go above and beyond, and have been a joy to work with through this past year. We had an outstanding docket of overly qualified individuals ready to take on the vital roles of Vice President and Nominating Committee to support the future of the Association. While only a few winners were ultimately selected by the membership, I reiterate that everyone that agreed to run for elected office and serve our Association are winners and we truly appreciate them. They all deserve our gratitude for stepping up and their willingness to serve and support to the Association. Several additional rays of sunshine came via our 2021 award winners, an outstanding selection of qualified individuals by our Awards Committee (Please see Molly

Savadelis' and Shelly Michalski's report).

I admit I was only holding on to the reins, while attempting to assist in guiding the process, however Martin and Adriano were dealing with the beast, face-to-face. Your Secretary-Treasurer and President Elect have figuratively been yanked-on, bitten, kicked, trampled, crushed, stampeded, and otherwise abused (but admired, nonetheless) over the past months in preparing for the upcoming hybrid meeting. In reading through this newsletter, you will see a well-organized and thoughtful program, with a precise explanation of the logistics for this meeting. However, these seemingly effortless words will offer little to inform you of the extraordinary calisthenics that both had to perform to make this meeting a reality! In the last newsletter I noted the quality people that we have in our leadership roles. Adriano and Martin have done nothing but reinforce those comments! More amazingly, Adriano has done all of this while assuming the Parasitology teaching role at Louisiana State University. Both are extremely hard-working individuals and will continue to do great things for the organization. The entire Executive committee has been meeting weekly in preparation for the meeting, but all other members would agree that Adriano and Martin have borne the brunt of the load.

I will be handing over the reins at the Lexington meeting (rather appropriate) and it has truly been an honor to serve as the AAVP president. While I certainly wish the year could have been more normal, I know that Martin will be an outstanding president. I would like to thank the entire Executive Committee for all of their support. Martin Nielsen, Antoinette Marsh, Adriano Vatta, Mason Reichard, Alan Marchiondo, Kathryn Duncan and Julie Thompson have all gone above and beyond in providing service to the organization in this challenging year. You all have my most sincere thanks and admiration!

Be sure to check out the meeting logistics in Adriano's and Martin's newsletter addresses and review the reports of all the Association's committees. Whether in-person, or virtually, we look forward to seeing you all in June at the 66th Annual Meeting of the AAVP!

Doug Carithers, AAVP President
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From the Secretary/Treasurer



Adriano Vatta
Secretary/Treasurer

Dear AAVP Members,

Our membership numbers stand at 256 Regular, 90 Student, and 22 Emeritus Members. I am pleased to note that these numbers are substantially higher than those at this time last year where we had 192 Regular, 53 Student, and 22 Emeritus Members.

To accommodate the expected reduction in in-person participants at this year's annual meeting, the Executive Committee was able to re-negotiate our contract with the Hilton Lexington/Downtown. The original contract had been signed pre-pandemic. As part of our renegotiated agreement, we agreed to host the meeting at the same hotel in 2023 and the meeting will take place from June 10-13, 2023. We also agreed on a 65% reduction in the total number of room nights that AAVP would be required to fill in 2020, from 494 to 187 room nights, and we negotiated a reduction in our food and beverage minimum from \$45,000 to \$35,000. In addition, audiovisual costs will count

towards this minimum. While we expect to meet the food and beverage minimum, we are currently expecting that a proportion of the room nights will not be filled. While we appreciate that there is a myriad of considerations in deciding whether to attend in person or not, we would urge you to reconsider attending in person if you are fully vaccinated and have currently made the decision to attend virtually only. The favorable conference rate will be available up until the meeting.

The Executive Committee is delighted that our corporate sponsors have again agreed to support the AAVP-Boehringer-Ingelheim Distinguished Veterinary Parasitologist Award, the AAVP-Merck Outstanding Graduate Student Award, and the AAVP-CAPC Graduate Student Award in Zoonotic Disease. Elanco has generously agreed to sponsor the Best Student Oral Presentations which were previously sponsored by Bayer and Elanco continues to sponsor the Best Student Poster Presentations. The student awards will be adjudicated from all students who enter the competition. All monetary awards will be mailed to the recipients after the meeting.

In addition to the awards sponsorships, Elanco has agreed to take on the sponsorship for the evening social event previously sponsored by Bayer. Elanco is therefore sponsoring two social events, on Saturday and Monday, while Boehringer-Ingelheim continues to support the Sunday event. Merck and Zoetis will both sponsor a luncheon and Virbac will sponsor the student events. The coffee and snack breaks will be sponsored by the AAVP. The Executive Committee is very grateful to all our corporate partners for sponsoring the in-person events.

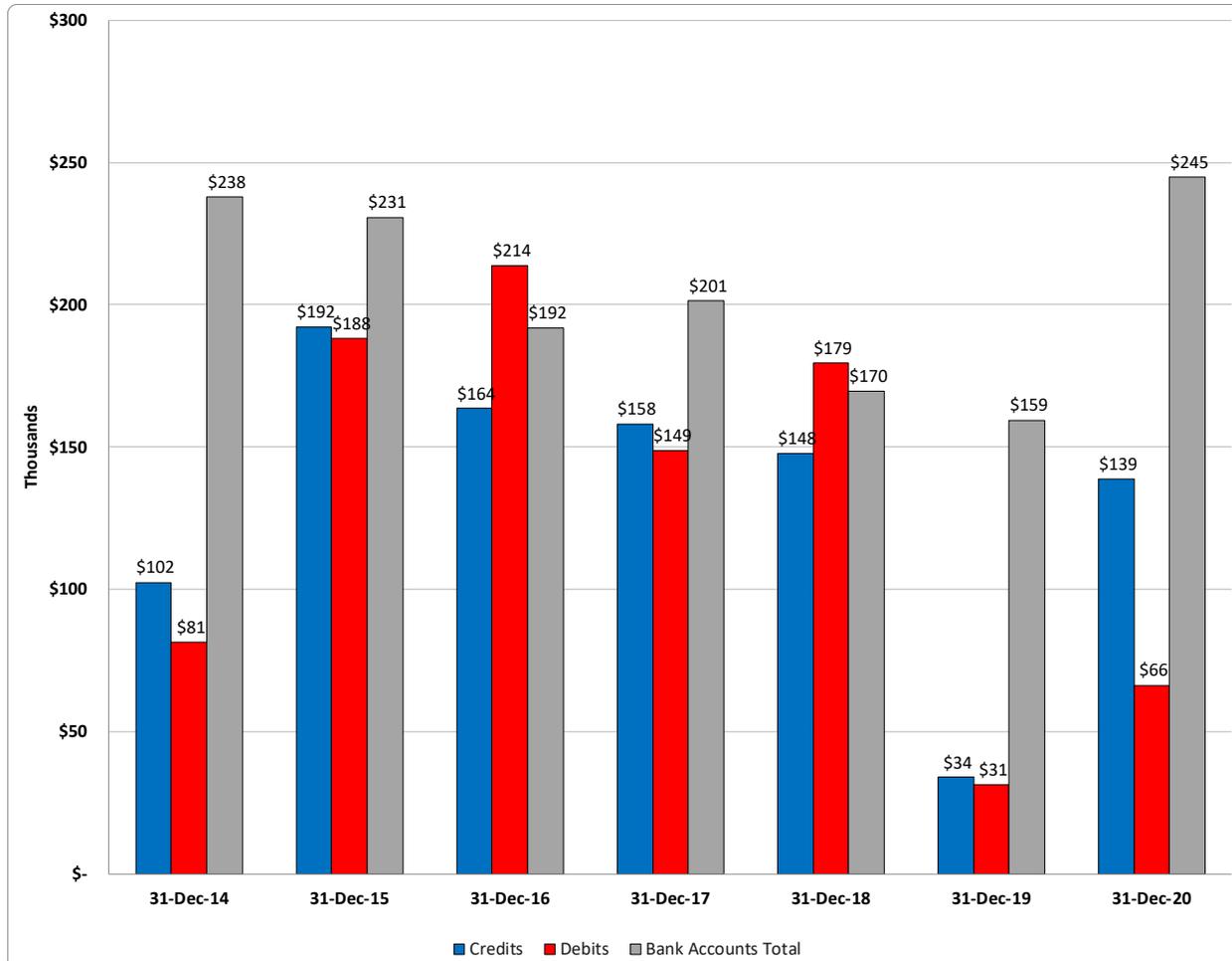
The full AAVP Board Meeting (including the Committee Chairs) will be held on Friday, June 18, from 2:00-4:00 PM Eastern Daylight Time, via Zoom, prior to the official start of the 2021 Annual Meeting on Saturday, June 19. The AAVP Business Meeting will be held during a session of the AAVP Annual Meeting on Monday, June 21, from 10:30 AM-12:00 PM Eastern Daylight Time. Committee Chairs or a designate are required to attend the Board Meeting and all members are encouraged to attend the Business Meeting.

In regard to the finances of the organization, the Executive Committee is pleased to announce that the balance in the AAVP bank accounts on December 31, 2020 was substantially better than the balance on December 31, 2019 (see figure below). This difference is mainly due to revenue derived from registrations and sponsorships for the 2020 virtual meeting while costs for that meeting were low compared with regular in-person meetings. This improvement in the financial status of the organization brings us up to par with the situation last noted at the end of 2014. While the AAVP remains a not-for-profit corporation, having these monetary reserves does provide a cushion to allow the AAVP to cover unforeseen eventualities, such as covering part of the costs of future meetings, should sponsorships be insufficient, or meeting contractual obligations to the meeting hotel in the event of any unforeseen need to cancel any future meeting.

As noted in the report of the History Committee, a fund is to be established in the name of Dr. David Young who passed away last year. While the details regarding the establishment of the fund are still being worked out, the fund is intended to support graduate students. The Executive Committee would like to thank Ms. Corinne Young, Dr. Young's widow, and the Young family, together with Dr. Doug Carithers, for facilitating this generous contribution, which currently stands at \$11,250.

I would like to thank the Finances Committee for its review of the financial statements of the organization. We do also continue to welcome the members inputs on how best the finances of the AAVP can be used for the betterment of parasitology research, education, and service.

Thank you for your support of the AAVP!



Notes: (1) The debit totals have been adjusted to reflect all expenses related to the Educators' Symposium in the year following the symposium, which is normally held towards the end of year, as payments of most expenses occur in the new year. For example, the expenses for the 2019 Symposium are reflected in 2020. (2) The funds received towards the Dr. David Young Graduate Student Fund are not included in the bank accounts total for 2020.

Respectfully submitted by:
Dr. Adriano Vatta

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66th Annual Meeting of the AAVP – Conference Information

Message from the Program Committee



*Dr. Martin Nielsen
President-Elect and
Program Chair*

We live in challenging times and organizing conferences has not gotten any easier. As you all know, we organized the first virtual annual meeting in AAVP history in 2020, and we learned a lot from that experience. Moving towards a post-pandemic era, we decided to organize the 66th AAVP Annual Meeting in a hybrid format, which will be another new experience to all of us. Hybrid format conferences are here to stay, and we can all use this year as an opportunity to gather valuable experience with this format and start thinking about what we want our Annual Meeting to look like in the future.

The hybrid format ensures that those of us, who are able and willing, can attend the meeting in person and enjoy sessions and socials in a traditional format. Similar to last year, all plenaries, sponsored talks, short oral presentations and poster presentations can be viewed on the online meeting widget. We will keep all content available on the widget for a duration of two months, after which it will be

taken down. Different from last year's meeting, we are also offering the *Attendify* meeting app. This tool will make it much easier to navigate the meeting and view presentations, whether you are attending virtually or in person, and it will help facilitate communication and interaction between conference attendees, regardless of where they are situated. All presentations can be viewed in the *Attendify* app, which will further increase reach and engagement. Given the complexity of having hybrid, virtual, and in-person programming, we strongly encourage everyone to download and use the app, as it will significantly enrich our conference experience.

Now to the program. We will follow our traditional Saturday afternoon to Tuesday morning outline. Each day will have a block of hybrid programming, which can be attended live by everyone. We have kept these items together in one block on each day to make it easier for those of you attending remotely to join at the scheduled time and enjoy that day's hybrid programming in one go. For those attending in person, we have set up traditional podium abstract sessions with the usual 12 minutes plus 3 minutes for questions allotted to each presentation. Poster sessions will be virtual only. To ease the navigation of the program, we have highlighted all hybrid sessions in yellow, and all the in-person sessions in blue. The in-person program also offers the traditional sponsored evening social events and two sponsored luncheons. A big thank you to all our sponsors for stepping up again this year and supporting the AAVP during these so challenging and unusual times.

On Friday, June 18th, 2021, the Executive Board and all of the committee chairs will meet virtually, to summarize and evaluate our association's achievements in the past year, address issues and prepare for the year to come.

On Saturday, June 19th, we begin the conference. Please note that all times are scheduled as US EDT, so please account for this, if you are attending remotely in a different time zone. At noon, the students will host their usual meet and greet session. This meeting will be hybrid, so all students can attend. Lunch will be sponsored by Virbac and served for those attending in person. At 2pm, we have our opening hybrid plenary session with the theme of "Current Challenges and the Avenues Ahead". First Dr. Matthew Denwood from the University of Copenhagen will give a presentation on statistical challenges with parasitology data and what to do about them. Then Dr. Erik Andersen from Northwestern University will give a summary on some of his work with unravelling genetic mechanisms behind drug resistance in nematodes. In the second hybrid session of the day, we will celebrate three of our award winners, who will each give a 30-minute presentation. The first speaker is this year's recipient of the AAVP-Merck Animal Health Outstanding Graduate Student Award, Jeffrey Gruntmeier. He will be followed by Dr. Andrew Peregrine, who is the 2021 recipient of the AAVP-Boehringer-Ingelheim Distinguished Veterinary Parasitologist Award. Last but not least, we will celebrate Dr.

Michael Yabsley, who has been awarded the AAVP-William C. Campbell One-Health Award. For in-person attendees, we will end Saturday's program with the Elanco Opening Night Social Event.

On Sunday, June 20th, the in-person program will feature traditional abstract sessions organized by themes and topics. The hybrid program will begin at 12.15pm with a Zoetis sponsored session, where Dr. Yoko Nagamori will give a presentation about a novel parasite fecal egg counting technology. Lunch will be provided to those attending in person. This will be followed by a panel discussion session organized by our amazing AAVP student representatives Kathryn Duncan and Julie Thompson. The panel will feature three scientific journal editors from within our membership and will focus on tips and guidance for preparing manuscripts for submission. The last hybrid session of the day will be a Boehringer Ingelheim sponsored session, where Dr. Ray Kaplan will give a presentation about the grave status of multiple anthelmintic resistance in canine hookworms. After this, the afternoon will offer more in-person abstract sessions, and we will end the day with the Boehringer Ingelheim Sunday Night Social.

Monday, June 21st will start with another in-person abstract session. The hybrid program will begin at 10.30 with the AAVP Business Meeting. This will be followed by a Merck Animal Health sponsored session, where Dr. Robert Lavan will give a presentation about flea and tick treatment behavior among dog owners. Lunch will be provided to those attending in person. The last hybrid session of the day is an Elanco-sponsored session, where Dr. Brian Herrin will give a presentation about the effects of lotilaner on Lone Star Ticks. Following this, the afternoon will feature more in-person sessions and the students will have another hybrid meeting electing their representative for the executive board for the next two years. We end the in-person program of the day with the Elanco Monday Night Social.

Tuesday, June 22nd will feature the traditional President's Symposium and we have two exciting speakers lined up. First, Dr. Jocelyn Poissant from University of Calgary will give a presentation about his work with a unique feral equine population on Sable Island in Canada. Then, Dr. Michael Kimber from Iowa State University will give a presentation on nematode extracellular vesicles and the role that they play. The last session of the conference will be the traditional AAVP-NCVP Parasite Clicker Case Discussions hosted by Drs. Gui Verocai and Mani Lejeune.

On Tuesday, June 22nd, following the conference, our hard-working student representatives, Kathryn Duncan and Julie Thompson, are leading a student trip to the University of Kentucky Maine Chance Farm, where we will be meeting the two historic equine parasitology research herds that were both established in the 1970s and have been used in countless research studies over the decades. For any details on this trip or any other student activities during the meeting, please contact Dr. Julie Thompson (jmthompson2961@gmail.com), or Dr. Kathryn Duncan (katdunc@ostatemail.okstate.edu).

The program committee, Drs. Doug Carithers, Antoinette Marsh, Mason Reichard, Adriano Vatta, Al Marchiondo, Kathryn Duncan, Julie Thompson, and I have aimed to create a meaningful meeting experience for everyone attending and we look forward to hosting everyone in person or online. A big shout out to Adriano for sorting out registrations, contracts and all finances associated with the conference. Al deserves a huge thank-you for always keeping us organized and on track, and for putting together the proceedings again this year. Serving on the executive board would be so much harder without Al and Adriano! Also, a big thank you to our conference partners: Omnipress, Encore Global, and the Downtown Lexington Hilton Hotel. Organizing this meeting has required a lot of coordination between these entities, and everyone has shown great flexibility and willingness to get the hybrid format to work.

Last but not least, many thanks to all of you who have submitted abstracts and registered for this meeting. The Annual AAVP Meeting remains to be the most important activity of our association and we sincerely appreciate your continued commitment.

Dr. Martin Nielsen
AAVP President-Elect and 2021 Program Chair

AAVP Business Meeting Agenda

Monday, June 21, 2021: 10:30-12:00 noon EDT

Grand Kentucky Ballroom and online

Zoom Meeting ID: Will be provided to registered attendees of the annual meeting, whether in-person or virtual

Agenda (duration of times are approximate):

10:30-10:35	(5 mins)	Opening remarks (Doug Carithers)
		Approval of the 2020 meeting agenda
10:35-10:40	(5 mins)	Committee updates summary (Doug Carithers)
10:40-10:45	(5 mins)	Postponement of changes to Constitution and ByLaws amendments until 2022 meeting (Doug Carithers)
10:45-11:00	(15 mins)	Secretary-Treasurer report (Adriano Vatta)
11:00-11:15	(15 mins)	Remaining old business (AAVP members)
11:15-11:30	(15 mins)	New business (AAVP members)
11:30-11:35	(5 mins)	Close of meeting (Doug Carithers)
		Transfer of presidency to Martin Nielsen

Annual Meeting Daily Program

2021 AAVP PROGRAM HYBRID MEETING (All times US Eastern Daylight Saving Time)

Friday, June 18, 2021	
10.00-14.00	IN-PERSON CONFERENCE REGISTRATION Room: Top of escalator
14.00-16.00	AAVP Executive Committee Meeting <i>All AAVP officers and committee chairs please plan to attend</i> Room: Triple Crown Room
Saturday June 19, 2021	
12.30-14.00	AAVP Student Member Meet and Greet Luncheon – All Students Please Attend Sponsored by Virbac Room: Magnolia Room and online
12.00-17.00	IN-PERSON CONFERENCE REGISTRATION Room: Top of escalator
13.15-14.00	Break (no refreshments)
14.00-18.30	PLENARY SESSION: Current Challenges and the Avenues Ahead Room: Grand Kentucky Ballroom and online Moderator: Martin Nielsen
14.00-14.15	Opening remarks AAVP President: Doug Carithers AAVP President-Elect and Program Chair: Martin Nielsen
14.15-16.15	1. Problems with parasitology data and what to do about them Matthew Denwood (45 mins) <i>University of Copenhagen</i> 2. The genetics of resistance in free-living and parasitic nematodes Erik Andersen (45 mins) <i>Northwestern University</i>
16.15-16.45	Coffee Break (Atrium)
16.45-18.30	AAVP AWARDS Room: Grand Kentucky Ballroom and online Moderator: Shelly Michalski
16.45-17.15	2021 AAVP-Merck Animal Health Outstanding Graduate Student <i>Awarded to Jeff Gruntmeir</i> <i>University of Florida</i> Heat treatment, what are we missing? Determining the effects on diagnostic accuracy for <i>Dirofilaria immitis</i> antigen in dogs and antibody interference
17.15-17.45	2021 AAVP-Boehringer Ingelheim Distinguished Veterinary Parasitologist <i>Awarded to Andrew Peregrine</i> <i>University of Guelph</i> From Kenya to Canada: Lessons learned?!
17.45-18.30	2021 AAVP-William C. Campbell One-Health Award <i>Awarded to Michael Yabsley</i> <i>University of Georgia</i> My experiences on why parasites belong in a One Health framework

Saturday June 19, 2021 continued

18.30-19.00	Break (no refreshments)
19:00-21:30	Elanco Opening Night Social Room: Magnolia Room

IN-PERSON ORAL PRESENTATIONS

Sunday June 20, 2021

8.30-10.00	Session 1: Treatment Modalities and Resistance Room: Grand Kentucky Ballroom Moderators: Antoinette Marsh and Kathryn Duncan
8.30-8.45	11. Ivermectin and moxidectin have distinct pharmacological profiles on the GLC-2 GluCl Timothy Geary <i>McGill University</i>
8.45-9.00	24. Lack of canonical beta-tubulin resistance variants in two benzimidazole-resistant ascarid species James B. Collins <i>University of Georgia</i>
9.00-9.15	14. Optimization studies of a new modality of deworming: Cry5B IBaCC Kelly Flanagan <i>University of Massachusetts</i>
9.15-9.30	17. In vitro screening of phosphoethanolamine methyltransferases (PMTs) inhibitor compounds as potential new broad-spectrum anthelmintics Leonor Sicalo Gianechini <i>University of Georgia</i>
9.30-9.45	18. Using a primary <i>C. elegans</i> mutant screen to identify candidate genes that affect the ivermectin sensitivity of the filarial worm <i>B. malayi</i> after RNAi Natalie Wilson <i>University of Georgia</i>
9.45-10.00	21. The break-through of macrocyclic lactone resistance in cyathostomins? Martin Nielsen <i>University of Kentucky</i>
10.00-10.30	Coffee Break (Atrium)
10.30-12.00	Session 2: Equine Parasitology Room: Grand Kentucky Ballroom Moderators: Ray Kaplan and Constance Finnerty
10.30-10.45	69. Examining surface antigen variation in <i>Sarcocystis neurona</i> based on whole-genome sequencing of multiple isolates Jamie Norris <i>University of Kentucky</i>
10.45-11.00	28. <i>Too cool for school: How analyst training affects fecal egg count variability</i> Jennifer Cain <i>University of Kentucky</i>

Sunday, June 20, 2021 continued

11.00-11.15	<p>23. Ivermectin and moxidectin: Egg reappearance periods and anthelmintic efficacy Martin Nielsen <i>University of Kentucky</i></p>
11.15-11.30	<p>32. Cyathostomin scavenger hunt - Evaluating precision of parasite burden estimation Mackenzie Smith <i>University of Kentucky</i></p>
11.30-11.45	<p>68. Comparative H-gal-GP and H11 specific antibody binding in equine cyathostomins Sidney Long <i>The Ohio State University</i></p>
11.45-12.00	<p>35. Cultivating tradition: Evaluation of the larval culture method for diagnosis of <i>Strongylus vulgaris</i> Jessica Scare Kenealy <i>Eastern Kentucky University</i></p>
12.00-12.15	Break
12.15-13.15	<p>Zoetis Luncheon Symposium Moderator: Cory Penn Break the pet-parasite cycle: The connection between prevention and screening Yoko Nagamori Zoetis Room: Grand Kentucky Ballroom and online</p>
13.15-13.30	Break
13.30-14.15	<p>Editors' panel: How to get that paper published Moderators: Kathryn Duncan and Julie Thompson Panel: Dwight Bowman, Jennifer Ketzis, Martin Nielsen Room: Grand Kentucky Ballroom and online</p>
14.15-14.30	Break
14.30-15.30	<p>Boehringer Ingelheim Seminar Moderator: Dean Dailey 5. Multiple anthelmintic resistance in <i>Ancylostoma caninum</i>: It's much worse than we feared Ray Kaplan University of Georgia Room: Grand Kentucky Ballroom and online</p>
15.30-16.00	Coffee Break (Atrium)

Sunday, June 20, 2021 continued

16.00-18.00	Session 3: Vectors and Vector-Borne Pathogens Room: Grand Kentucky Ballroom Moderators: Doug Carithers and JB Collins
16.00-16.15	84. Equine tick-borne rickettsial infections in northeastern Oklahoma Kathryn Duncan <i>Oklahoma State University</i>
16.15-16.30	50. Tracking an invader: Wildlife surveillance for <i>Haemaphysalis longicornis</i> in the eastern U.S. Alec Thompson <i>University of Georgia</i>
16.30-16.45	73. AC-DC electropenetrography unmasks fine temporal details of feeding behaviors for two tick species on unsexed hosts Kathryn Reif <i>Kansas State University</i>
16.45-17.00	39. Population genetic structure of the Asian longhorned tick, <i>Haemaphysalis longicornis</i> Alec Thompson <i>University of Georgia</i>
17.00-17.15	44. Multi-season survey of ixodid tick species on domestic dogs in Chad, Africa Morgan Friedman <i>University of Georgia</i>
17.15-17.30	46. Ixodid ticks of the Cumberland Gap Region (2016-2020) Barbara Shock <i>Lincoln Memorial University</i>
17.30-17.45	12. Efficacy of a tetanus toxoid-dPNAG conjugated vaccine against experimental <i>Dirofilaria immitis</i> infections in dogs Byron Blagburn <i>Auburn University</i>
17.45-18.00	30. Assessing the field performance of a cell-phone based video-microscope for diagnosing heartworm infection in dogs Guilherme Verocai <i>Texas A&M University</i>
18.00-18.30	Break (no refreshments)
18.30-21.00	Boehringer Ingelheim Sunday Night Social Room: Magnolia Room

Monday June 21, 2021

Breakfast on your own

8.30-10.00	<p>Session 4: Protozoa Room: Grand Kentucky Ballroom Moderators: Gui Verocai and Nichol Ripley</p>
8.30-8.45	<p>62. Locally transmitted <i>Trypanosoma cruzi</i> in a domestic llama (<i>Llama glama</i>) with megaesophagus in a rural area of greater New Orleans, Louisiana, USA Julie Thompson <i>Tulane University</i></p>
8.45-9.00	<p>63. Clinical and subclinical <i>Cytauxzoon felis</i> infections in domestic cats in southern Illinois. Elliott Ziemann <i>Eastern Illinois University</i></p>
9.00-9.15	<p>71. Cytopathic effect of <i>Trichomonas gallinae</i> on cell culture after persistence in simulated environmental conditions Kathryn Purple <i>Lincoln Memorial University</i></p>
9.15-9.30	<p>72. Metabolic profile of <i>Histomonas meleagridis</i> and undefined bacterial population in Dwyer's media with and without rice starch Sawsan Ammar <i>University of Tennessee</i></p>
9.30-9.45	<p>49. Prevalence of <i>Cytauxzoon felis</i> infection carriers in eastern Kansas domestic cats. Kathryn Reif <i>Kansas State University</i></p>
9.45-10.00	<p>67. <i>Histomonas meleagridis</i> outbreak & transmission pathway investigation on a private farm Laura Horton <i>University of Tennessee</i></p>
10.00-10.30	<p>Coffee Break (Atrium)</p>
10.30-12.00	<p>AAVP Business Meeting & Awards AAVP Executive Committee, Student Officers, Corporate Sponsor representatives, and Awardees stay for pictures (if present in person) Room: Grand Kentucky Ballroom and online</p>
12.00-13.00	<p>Merck Luncheon Symposium Moderator: Robert Armstrong</p> <p>6. Dog Owner Flea/Tick Treatment Behavior Assessed Through Veterinary Hospital Transaction Records Robert P. Lavan <i>Merck Animal Health</i></p> <p>Room: Grand Kentucky Ballroom and online</p>
13.00-13.15	<p>Break</p>

Monday June 21, 2021 continued

13.15-14.15	<p style="text-align: center;">Elanco Symposium Moderator: Elizabeth Capitano</p> <p style="text-align: center;">7. Pumping the breaks on tick feeding: Early effects of lotilaner on Lone Star Ticks Brian H. Herrin <i>Kansas State University</i></p> <p style="text-align: center;">Room: Grand Kentucky Ballroom and online</p>
14.15-14.30	<p>Break</p>
14.30-15.45	<p>Session 5: Canine and Diagnostics Room: Grand Kentucky Ballroom Moderators: Timothy Geary and Natalie Wilson</p>
14.30-14.45	<p>10. Establishment of dog model of <i>Brugia malayi</i> infection Andy Moorhead <i>University of Georgia</i></p>
14.45-15.00	<p>64. Autochthonous, zoonotic <i>Onchocerca lupi</i> in a South Texas dog, United States Caroline Sobotyk <i>Texas A&M University</i></p>
15.00-15.15	<p>42 Spatial analysis of four vector-borne pathogens among shelter dogs in the eastern United States Corinna Hazelrigg, <i>University of Georgia</i></p>
15.15-15.30	<p>47. Nationwide seroprevalence of select vector-borne pathogens in shelter animals, 2007–2012. Lindsay Starkey <i>Auburn University</i></p>
15.30-15.45	<p>29. Assessment of an automated fecal egg count system for small ruminants Paul Slusarewicz <i>MEP Equine Solutions</i></p>
15.45-16.15	<p>Coffee Break (Atrium)</p>
16.15-17.30	<p>Session 6: Wildlife parasitology Room: Grand Kentucky Ballroom Moderators: Adriano Vatta and Jennifer Cain</p>
16.15-16.30	<p>40. Disentangling the cryptic biodiversity of <i>Onchocerca</i> in wild North American ungulates Matthew Kulpa <i>Texas A&M University</i></p>
16.30-16.45	<p>65. OMG! EPM associated <i>Neospora caninum</i> in a captive bred zebra (<i>Equus Zebra</i>) Antoinette Marsh <i>The Ohio State University</i></p>
16.45-17.00	<p>55. Surveillance for <i>Echinococcus</i> species infections among wild canids in Pennsylvania Kayla Garrett <i>University of Georgia</i></p>
17.00-17.15	<p>58. Survey of nuisance coyote populations in the Panhandle of Texas with an emphasis of parasites of Zoonotic importance Ashley Steuer <i>Texas Tech University</i></p>

17.15-17.30	56. Clinical babesiosis in a North American river otter (<i>Lontra canadensis</i>) and the prevalence and genetic characterization of this <i>Babesia microti</i> -like species in the eastern United States Kayla Garrett <i>University of Georgia</i>
Monday June 21, 2021 continued	
17.30-18.30	AAVP Students – Afternoon Snack and Student Elections – all students please attend Sponsored by Virbac Room: Magnolia Room and online
18.30-19.00	Break
19:00-21:00	Elanco Monday Night Social Room: Bigg Blue Martini

Tuesday June 22, 2021	
8.30-10.30	PRESIDENT’S SYMPOSIUM: Current Challenges and the Avenues Ahead
8.30 -10.30	Moderator: Martin Nielsen Room: Grand Kentucky Ballroom and online 3. Equine parasitology goes wild: The Sable Island Horse Project Jocelyn Poissant (45 mins) <i>University of Calgary</i> 4. A primer on parasitic nematode extracellular vesicles and why they are relevant to the host-parasite interface Michael Kimber (45 mins) <i>Iowa State University</i>
10.30-11.00	Coffee Break (Atrium)
11.00-12.30	AAVP-NCVP Parasite Clicker Case Discussions Moderators: Gui Verocai and Mani Lejeune Room: Grand Kentucky Ballroom and online
12.30-	Meeting Adjourns – Happy Trails!

Virtual Short Oral Presentations

Control

8 Comparative preventive efficacy of ProHeart®12, Heartgard® Plus and Interceptor®Plus against a macrocyclic lactone-resistant strain (JYD-34) of heartworm (*Dirofilaria immitis*) in dogs inoculated 6 months after commencing treatment

Tom McTier, Zoetis

9 Retrospective analysis of Heartworm (*Dirofilaria immitis*) prevention medication compliance and economic value in dogs in veterinary practices in Australia

Kennedy Mwacalimba, Zoetis

13 Vectra®3D blocks transmission of *Borrelia burgdorferi* by wild-collected *Ixodes scapularis* ticks in an *ex vivo* feeding model

Djamel Tahir, Clinvet Morocco

15 Safety of Simparica Trio® in heartworm-positive dogs and its effect on microfilariae and adult heartworms (*Dirofilaria immitis*)

Sheerin Mathur, Zoetis

16 Predicting pasture infectivity for improved management of gastrointestinal nematodes in cattle on temperate grasslands

Tong Wang, University of Calgary

19 Early onset of pre-lethal effects of lotilaner (Credelio®) on *Amblyomma americanum* ticks on experimentally infested dogs

Martha Wenger, Kansas State University

20 Efficacy of oral moxidectin against induced *Ancylostoma caninum* and *Toxocara canis* infections in dogs

Jessica Rodriguez, Zoetis

Resistance

22 Multiple drug resistance in hookworms infecting greyhounds in the USA

Pablo Jimenez Castro, University of Georgia

25 Deep amplicon sequencing reveals that benzimidazole resistance mutations commonly occur in *A. caninum* populations of pet dogs across the USA

Abhinaya Venkatesan, University of Calgary

26 Modular molecular epidemiological toolkit for studying anthelmintic resistance using next-generation sequencing technology

Rebecca Chen, University of Calgary

27 Large-scale molecular epidemiology and geospatial mapping to investigate patterns of benzimidazole resistance occurrence and spread in North American sheep flocks

Camila Queiroz, University of Calgary

Diagnosis

31 Creating curated databases for different rDNA cistron markers of nematodes to support more flexible and customized nemabiome metabarcoding

Eleonore Charrier, University of Calgary

33 Next Generation Sequencing-based metabarcoding to investigate species diversity of morphologically classified cattle *Eimeria*

Venkateswara Rao Parimisetti, University of Calgary

34 Effect of increasing temperature on the denaturation of canine IgG and its ability to inhibit heartworm antigen detection

Jeff Gruntmeir, University of Florida

36 Investigating the potential for heartworm antigen test cross-reactivity in dogs infected with intestinal helminths Alice Lee , <i>University of Florida</i>
Epidemiology
37 Heartworm in carnivores kept in zoos located in Texas, USA: risk perception, practices, and prevalence Kaitlyn Upton , <i>Texas A&M University</i>
38 Heartworm prevalence in dogs versus cats: Multiple diagnostic modalities provide new insights Kennedy Mwacalimba , <i>Zoetis</i>
41. Detection of five common internal parasites in high animal traffic areas. Tanner Hernandez <i>Louisiana State University</i>
43 Regional variations and patterns of infestation of ticks from horses across the United States Makaela Hedberg , <i>Kansas State University</i>
45 Population characteristics of dogs and cats infested with ticks in the United States Susan Little , <i>Oklahoma State University</i>
48 Improving public health surveillance of <i>Onchocerca lupi</i> through increased host and vector screening Chandler Roe , <i>Northern Arizona University</i>
Wildlife
51 Vector-borne and blood-borne parasitic disease prevalence survey in wild Texas ocelots (<i>Leopardus pardalis</i>) and bobcats (<i>Lynx rufus</i>) Nicole Szafranski , <i>University of Tennessee</i>
52 Detection of <i>Trypanosoma cruzi</i> in raccoons and triatomines in northeast Kansas Kamilyah Miller , <i>Kansas State University</i>
53 Parasites of Northern bobwhite quail (<i>Colinus virginianus</i>) from western Oklahoma Seth Wyckoff , <i>University of Georgia</i>
54 Wildlife diversity among villages in Chad, Africa with various levels of <i>Dracunculus medinensis</i> (Guinea worm) infections in domestic dogs: insights into possible reservoirs? Avery Korns , <i>University of Georgia</i>
57 Susceptibility of anurans, lizards, and fish to infection with <i>Dracunculus</i> species larvae and implications for their roles as paratenic hosts Erin Box , <i>University of Georgia</i>
59 The importance of mange diagnostics and some unusual clinical cases in wildlife Ryan Grunert , <i>University of Georgia</i>
60 Distribution and prevalence of antibodies to <i>Trichinella</i> spp. and <i>Toxoplasma gondii</i> in feral swine in the United States Katherine Callaghan , <i>University of Georgia</i>
61 What is blackhead disease in free-ranging wild turkeys (<i>Meleagris gallopavo</i>)?: Comparison of <i>Tetratrichomonas gallinarum</i> , <i>Simplicimonas</i> sp., and <i>Tritrichomonas</i> sp. infections with <i>Histomonas meleagridis</i> Rowan Bäck , <i>University of Georgia</i>
Novel cases
66 <i>Halicephalobus gingivalis</i> in the eye of a horse and chemoprophylaxis of a potentially exposed person Andrew Peregrine , <i>University of Guelph</i>
Education
70 Survey of parasitology instruction at North American veterinary colleges Meriam Saleh , <i>Texas A&M University</i>

Virtual Poster Presentations

Control

74 A questionnaire survey on helminth control practices in horse farms in Lithuania
Evelina Dauparaitė, *Lithuanian University of Health Sciences*

75 Evaluation of plant secondary metabolites as inhibitors of *Cryptosporidium parvum* in vitro
Jason Fritzler, *Texas Tech University*

76 Applying DNA-encoded library (DEL) screens and machine learning (ML) to drug discovery in animal health
Mackenzie Pfeiffer, *Animol Discovery*

Resistance

77 The effect of xenogeneic extracellular vesicles on the pathophysiology and drug resistance of *Leishmania* spp. infections in vivo
Victoria Wagner, *Université de Montréal*

Diagnosis

78 Diagnostic Improvements in the Detection of Intestinal Habronematid Infections in Equids
Jaime Hazard, *Cornell University*

79 Towards automated identification and enumeration of eggs in fecal samples
Jasmine Nejad, *Colorado State University*

Epidemiology

80 Assessing the human healthcare burden of zoonotic diseases: an analysis of hospital discharge records for characterizing patients and analyzing trends in *Toxoplasma gondii* (toxoplasmosis) cases in Nevada for 2013-2019
Chad Cross, *University of Nevada*

81 Bovine trichomonosis cases in the United States 2015 – 2019
Katy Martin, *Iowa State University*

82 Mitochondrial haplotypes, phylogenetic relationships, and beta-tubulin SNPs among U.S. field isolates of *Ancylostoma caninum*
Theresa Quintana, *Kansas State University*

83 Molecular detection of *Trypanosoma cruzi* in kissing bugs collected across Oklahoma
Kelly Allen, *Oklahoma State University*

84 Equine tick-borne rickettsial infections in northeastern Oklahoma
Kathryn Duncan, *Oklahoma State University*

85 Genetic diversity of *Trypanosoma cruzi* among infected Southern Louisiana shelter cats
Hans Desale, *Tulane University*

Wildlife

86 Prevalence of *Baylisascaris procyonis* in raccoons (*Procyon lotor*) from Merrick County, Nebraska
Sydney Reeves, *Kansas State University*

87 Prevalence of internal parasites in wildlife and domestic canids from western Alaska and comparison of *Toxascaris leonina* cox 1 gene sequences
Karisa Sommermeyer, *Colorado State University*

88 Surveillance to determine the sylvatic range of Feline Cytosporidiosis in NE United States
Manigandan Lejeune, *Cornell University*

89 Detection of *Cytauxzoon felis*, *Hepatozoon* spp., and *Sarcocystis* spp. in bobcats (*Lynx rufus*) from Oklahoma
Megan Lineberry, *Oklahoma State University*

<p>90 <i>Echinococcus multilocularis</i> and lungworm infection in wild canids from Virginia: Preliminary results Roger Ramirez-Barrios, Virginia Tech</p>
<p style="text-align: center;">Education</p>
<p>91 Veterinarian perceptions of canine giardiasis and communication on zoonotic potential in the U.S. Megan Eppler, Kansas State University</p>
<p style="text-align: center;">Novel cases</p>
<p>92 Clinical <i>Sarcocystis neurona</i> in a dog co-infected with <i>Ancylostoma caninum</i> Ruth Scimeca, Oklahoma State University</p>

Educator's Corner

Emergency remote or on-line teaching

While on-line courses have increased in popularity and become the norm for many programs, medical and veterinary education has remained primarily classroom and laboratory based. Some reasons for this are outlined by O'Doherty et al. (2018) and include time constraints, inadequate infrastructure, absence of institutional strategies and support and negative attitudes toward on-line courses. Many of us also might state that there is no on-line substitute for being in the laboratory and performing a fecal flotation! Now, with COVID-19, many of us are faced with presenting lectures and even laboratories on-line. Frequently, this is being referred to as on-line teaching or on-line courses.

On-line courses are conceived from the start to be delivered via the internet with a focus on the types of students that enroll and their specific needs. The courses often include pre-recorded lectures, synchronous or asynchronous discussions, and an in-class or in-lab component to provide hands-on experiences that are not deliverable via the internet. Projects and exercises often are carefully selected to promote certain skill sets required in an "on-line" world, such as remote team building. Several technologies and methods are used to maximize the student learning experience and interaction with the instructor without overwhelming the instructor. In contrast to on-line courses, the temporary delivery of lectures or labs remotely in response to COVID-19 neither addresses the barriers to on-line courses in medical and veterinary education nor addresses the specific needs of the on-line student.

Are we moving toward on-line courses or are we responding to COVID-19? Answering this question is instrumental in deciding how to approach courses this summer and fall. If, for example, huge time investment is required to produce on-line laboratories and these will not be used again, is the investment wise? Can focus be placed on areas that might be applied in the future, after COVID-19? Are resources available to develop high quality on-line courses including laboratories? Many of us are having to quickly decide whether to delay laboratory exercises or incorporate them in an on-line format, determine what this format will look like, which skills students can achieve virtually and what technologies (e.g., virtual microscopes) are available to achieve these goals. First year veterinary competencies must be considered in these decisions and sharing of ideas and resources can assist in this decision process. The AAVP Education Committee will be arranging on-line discussions, so if interested, please look out for e-mails from Dr. Heather Stockdale Walden.

O'Doherty D, et al. Barriers and solutions to online learning in medical education – an integrative review. BMC Medical Education (2018) 18:130 <https://doi.org/10.1186/s12909-018-1240-0>

Hodges C., et al. 2020. The Difference Between Emergency Remote Teaching and Online Learning. <https://er.educause.edu/articles/2020/3/the-difference-between-emergency-remote-teaching-and-online-learning>

Mafuso LG. 2020. From Emergency Remote Teaching to Rigorous Online Learning. <https://edtechmagazine.com/higher/article/2020/05/emergency-remote-teaching-rigorous-online-learning-perfcon>

Boettcher JV, Conrad R-M. 2016. The Online Teaching Survival Guide, 2nd edition.

Johnson A. 2013. Excellent! Online Teaching, effective strategies for a successful semester on line. Available on Amazon and free via Kindle Prime.

Respectfully submitted by:

Dr. Jennifer Ketzis

jketzis@rossvet.edu.kn

869.465.4161

Student Delegates Update

Hi everyone! We are getting excited about the upcoming hybrid meeting! Please let us know if you have any questions or concerns while you record and upload your presentation or poster.

Student meetings will occur on Saturday at 12:00EDT for a meet-and-greet lunch sponsored by Virbac, Sunday at 13:30EDT for a first-of-its-kind Editor's Panel, and Monday 17:30EST for student representative elections and snacks sponsored by Virbac. All student meetings will accommodate both in-person and virtual attendance. The annual student trip will also occur this year following the NCVP-AAVP Clicker Case Session on Tuesday. We will be touring Maine Chance Farm and Gluck Equine Research Center. All interested students should contact us to sign-up and for additional details.

As a reminder, student chapter leaders should send us your annual report prior to the start of the summer meeting to remain an active chapter. Let us know if you have any questions!

We look forward to watching your presentations and catching up soon!

Respectfully submitted by:

Dr. Kathryn Duncan (kathryn.duncan@okstate.edu) and Dr. Julie Thompson (jmthompson2961@gmail.com)



Kathryn Duncan (2021)



Julie Thompson (2022)

AAVP Committee Reports

Nominating Committee Report and Election Results



Yoko Nagamori, Chair
Nominating Committee

The Nominating Committee is made up of 6 members with 3-year staggered membership. The current committee consists of:

Term Ends	Committee Members	
2021	Lindsay Starkey	Yoko Nagamori
2022	Alice Lee	Andrew Moorhead
2023	Brian Herrin	Jessica Rodriguez

The committee is charged with developing the ballot for election of officers and members of the Nominating Committee. Each year a new

Vice President and 2 new Nominating Committee members are elected, and every 2 years a new Secretary/Treasurer is elected. The ballot consisted of two nominees for Vice President, five nominees for the Nominating Committee and one for Secretary/Treasurer.

The nominees were:

Vice President

Jennifer Ketzis
Heather D. S.
Walden

Nominating Committee

John Gilleard
Araceli Lucio-Forster
Molly Savadelis
Guilherme Verocai
Cristiano von Simson

A total of 1,195 AAVP members had the opportunity to vote at the time of the election, which was conducted twice, and 187 ballots were returned for the first election and 152 ballots were returned for the second run-off election for the Vice President position.

The 2021 Election Results

VICE PRESIDENT



Jennifer Ketzis

NOMINATING COMMITTEE



John Gilleard



Guilherme Verocai

Congratulations to each of you!

Respectfully submitted by Dr. Yoko Nagamori, Chair, Nominating Committee

Awards Committee Report

We would like to begin by expressing our sincerest gratitude to several folks:

- The members of the awards committee this year for their many efforts prior to the meeting in selecting awards recipients as the field of qualified nominees this year made for some difficult choices.
- The nominators and those who took the time to submit letters of support for all of the nominees in 2021.
- Committee members and willing ad-hoc judges in attendance who will be participating in the judging of the student competition.
- The executive committee for all of their hard work that ensures the smooth operation of this committee.
- Sponsors of the named awards and student oral and poster presentation awards: Boehringer Ingelheim, CAPC, Elanco, and Merck. Thank you for your continued support of the various AAVP awards.



Shelly Michalski



Molly Savadelis

There were 22 members on the Awards committee this past year. A huge thanks to those continuing to serve on and those willing to serve on this committee. Substantial committee membership aids in voting on award recipients and in the judging of the best student paper and poster competitions at the annual meeting, especially with the continued increase in student involvement.

Elanco has continued to offer their support by providing awards for the top-placing students in the Best student presentation and poster competitions.

Respectfully submitted by Shelly Michalski and Molly Savadelis, Co-Chairs, AAVP Awards Committee

2021 AAVP Awards Committee members: Shelly Michalski and Molly Savadelis (Co-Chairs), Alice Lee, Christian Epe, Frank Guerino, Gui Verocai, Janice Liotta, Jim Miller, Joe Camp, Lindsay Starkey, Peter Thompson, Susan Little, Dean Dailey, Lora Ballweber, Meriam Saleh, Javier Garza, Kelly Allen, Lisa Young, Rachel Imai.

AAVP-Boehringer Ingelheim Distinguished Veterinary Parasitologist Award



Andrew Peregrine

Dr. Andrew Peregrine, of the University of Guelph Ontario Veterinary College, has been selected as the 2021 Distinguished Veterinary Parasitologist. This prestigious award recognizes and honors the outstanding contributions of an AAVP member to the advancement of veterinary parasitology. Dr. Peregrine's full biography will be featured in the annual meeting's proceedings, and his presentation entitled, "From Kenya to Canada: Lessons Learned?!" will take place during a special awards session at the meeting in Kentucky. In addition to the honor this award brings, Dr. Peregrine will receive a plaque and a \$1,500 monetary award provided by Boehringer Ingelheim.

Congratulations to **Dr. Peregrine** on receiving this award!

AAVP William C. Campbell One Health Award

Dr. Michael Yabsley, of the Southeastern Cooperative Wildlife Disease Study at the University of Georgia has been selected as the 2021 William C. Campbell One-Health Award recipient. This is an award that recognizes and celebrates remarkable veterinary parasitologists who have made extraordinary contributions to One Health, defined as the collaborative effort of multiple disciplines—working locally, nationally, and globally—to attain optimal health for people, animals, AND our environment. Dr. Yabsley's full biography will be featured in the annual meeting's proceedings, and his presentation entitled "My experiences on why parasites belong in a One Health framework" will take place during a special awards session at the meeting in Kentucky. The award consists of an engraved plaque specifically recognizing the awardee for their contributions to One Health. The AAVP will contribute toward the reimbursement of expenses necessary for the recipient to attend the Society's annual meeting.



Michael Yabsley

Congratulations to **Dr. Yabsley** on receiving this award!

AAVP-Merck Outstanding Graduate Student Award



Jeffrey Gruntmeier

Mr. Jeffrey Gruntmeier, of University of Florida, has been selected as the recipient of the 2021 AAVP-Merck Outstanding Graduate Student Award. Under the supervision of Dr. Heather Walden, Jeff's Ph.D. work has focused on heartworm diagnosis and antigen detection. Mr. Gruntmeier has authored, or coauthored, several manuscripts and abstracts presented at multiple international parasitology conferences and was awarded a grant through the National Center for Veterinary Parasitology (NCVP) for part of his work. He has also written parasite guidelines for the Companion Animal Parasite Council (CAPC). His award includes reimbursement of travel expenses by the AAVP, an engraved plaque and a monetary award of \$1000 provided by Merck Animal Health. Jeff's presentation will take place during a special awards session at the annual meeting in Lexington and is titled, "Effect of increasing temperature on the denaturation of canine IgG and its ability to inhibit heartworm antigen detection."

Congratulations to **Mr. Gruntmeier!**

AAVP-CAPC Graduate Student Award in Zoonotic Disease

Dr. Kathryn Duncan has been selected as the recipient of the 2021 AAVP-CAPC Graduate Student Award in Zoonotic Disease for her work on ticks and tickborne diseases of veterinary importance, heartworm disease, and diagnosis and treatment of intestinal parasites of domestic animals. She is currently a resident in Veterinary Parasitology at Oklahoma State University through the National Center for Veterinary Parasitology (NCVP). Her most recent publications discuss ticks of importance to dogs and cats as well as intestinal parasites detected from dogs attending dog parks. She will be presenting in the student session on Equine tick-borne rickettsial infections in northeastern Oklahoma." She will receive an engraved plaque and a monetary award of \$1000 provided by CAPC.

Congratulations to **Dr. Duncan!**



Kathryn Duncan

Best Student Paper and Poster Competitions

Over 35 students have entered the competition for the 2021 joint meeting! The Best Student Paper competition and the Best Student Poster competition is sponsored by Elanco. There will be 1st, 2nd, and 3rd place awards given in each category with \$500, \$300, and \$150 honoraria, respectively.

Any member who wishes to participate in the judging of the student competition is encouraged to contact Shelly Michalski (michalsk@uwosh.edu) or Molly Savadelis (molly.savadelis@zoetis.com) because arrangements are currently being prepared for the upcoming meeting.

Education Committee Report

Heather Walden, Chair; Members: Andy Moorhead, Antoinette Marsh, Araceli Lucio-Forster, Ashley McGrew, Jennifer Ketzis, Richard Martin, Matt Brewer, Grace VanHoy, Roger Rameriez-Barrios, Lauren Camp, Sriveny Dangoudoubiyam, Tejbir Sandhu, Tiffany Pope, Ashley Steuer, Jason Fritzler.

Committee Responsibility:

The Education Committee shall foster interchange between veterinary parasitologists and assist in any way the enhancement of teaching parasitology in general and veterinary parasitology in particular.

Activities in 2021:

1. The Education Committee is organizing the biennial Educators' Symposium which is planned for a virtual presentation in December 2021, and an in-person meeting in 2022 at the University of Georgia, College of Veterinary Medicine, Athens, GA. CAPC is partnering with AAVP and will provide funding support the in-person symposium in 2022. More information will be sent out after the annual AAVP meeting this June.
2. Case materials for teaching are available online through the AAVP website and NCVP has many online resources, as well.

Respectfully submitted by Dr. Heather Walden, Chair, AAVP Education Committee

Constitution and By-Laws Committee Report

Nothing to report at this time.

Outreach, Publication and Research Committee Report

The committee's efforts to reach to like associations and individuals in the America's fell short. Requests were forwarded to the committee for identification of recovered parasites, details of parasite transmission and associated pathology. Requests were forwarded to members of the association with particular expertise. The committee continues to reach out to individuals, organizations and/or institution throughout the Americas whose interests correlate to the mission statement of the AAVP. Committee members emphasize the mission of the AAVP, networking potentials and inclusion of faculty and graduate students into the AAVP. I have asked committee members to forward publications of general and relevant information for submission to AAVP membership. We welcome several new members and send best wishes to those who have become inactive. As with all, we look forward to an active 2012-2022.

Membership: Natassia Ruse, Saurabh Verma, Guilherme Klafke, Rachael Imai, Ruse, Camila de Queiroz, Timothy Geary, Mariam Bakashi, Akinsanya Bamidele, Evelin Rijman, Kathryn Reif, Miguel Suderman (chair).

Respectfully submitted by Miguel Suderman, Chair, Outreach/Publications/Research Committee

AAVP 2022 Conference Committee Report

We look forward to having an in-person meeting next year. We invite you all to the mountains of Utah. The dates will be June 25-28, 2022 and our venue will be Snowbird, The Cliff Lodge in Snowbird, Utah.

Respectfully submitted by Dr. Jennifer Ketzis, Chair, AAVP 2022 Conference Committee

Electronic Media Committee Report



Jessica Rodriguez

Objectives: The Electronic Media Committee (EMC) shall be responsible for providing material to update the AAVP social media accounts (e.g. Facebook and Twitter); a member of the EM Committee will be tasked with posting/updating the social media accounts for the organization. Social media posts can consist of interesting news articles, press releases, and AAVP announcements. All posted material should be in accordance with AAVP policies; the moderator will use discretion over postings. In addition, the EM Committee will assist with providing resources and content that can be posted on the AAVP website. For example, the EM Committee will assist the Newsletter Editorial Board Committee in publishing the AAVP Newsletter electronically.

Request for feedback: If you have any feedback or suggestions about the website or social media content, please let us know.

Social Media: Our Facebook page (American Association of Veterinary Parasitologists) currently has 2,532 “likes” and 2,940 following. Please

inbox the page if you’d like us to share any posts of interest. We have continued growing our Twitter presence including sharing job postings, posts from AAVP members, and new publications and accomplishments from AAVP members. As of May 2021, we have 905 followers! If you’d like AAVP to share one of your posts or a post of interest, please tag @AAVParasit in your post or retweet, or send us a message. Don’t forget to follow @AAVParasit on Twitter and spread the word about our members’ research by posting during the conference with the hashtag #AAVP2021.

Mobile App: This year we will be back to having a mobile app for the hybrid conference. You can download the app by searching “Attendify App” in the Apple App Store or Google Play Store. Once downloaded, open the Attendify app and search for “2021 AAVP Annual Meeting”. Select it and “Join” the event. Using the app, you’ll be able to browse the meeting proceedings, program schedule, session descriptions, abstracts, links to sessions, speaker bios, build your own itinerary, and stay up to date with the latest news and announcements.

Committee members: Jessica Rodriguez -chair, Frank Hurtig – Newsletter editor, Brian Herrin – Newsletter assistant editor, Meriam Saleh, Tim Geary, Flavia Ferrari, Ashley Steuer, Elizabeth Shepherd, Dean Dailey, Shelly Michalski, Roberto Cortinas, Tejbir Sandhu, Ann Donoghue

Respectfully submitted by Dr. Jessica Rodriguez, Chair, Electronic Media Committee

Finances Committee Report

James Miller (Chair), Andy Moorhead, Chris Adolph, Pete Hann, Ashley McGrew

The Finance Committee has reviewed the Financial Statement prepared by the current Secretary/Treasurer Dr. Adriano Vatta for FY 2020. Based on the financial information supplied to the Finance Committee, the committee finds the balance sheets for FY 2020 to be in order and an accurate accounting of the financial status of AAVP.

Summary for Jan. 1-Dec. 31, 2020

Total Credits:	\$150,022.59
Total Disbursements:	\$53,267.78
Total income minus expenses for the 12-month period:	\$96,754.81

Cash Balance-Checking Account with PNC Bank, Kalamazoo, Michigan as of 31 December 2020	\$45,190.82
Cash Balance-Money Market (Savings) Account with PNC Bank, Kalamazoo, Michigan as of 31 December 2020	\$210,914.45
TOTAL CASH BALANCE AS OF 31 December 2020:	\$256,105.27

Currently all AAVP assets are held in a checking and savings account at PNC Bank, Kalamazoo, Michigan.

For additional specific information, see FY 2020 Financial Statement.

Respectfully submitted,

James E. Miller, DVM, MPVM, Ph.D., Dip. ACVM (Parasitology), AAVP Finance Committee Chair

Archive Committee Report

The AAVP archive continues to be held at Iowa State University (ISU) and an inventory of its contents is accessible via the following link to the Special Collections Department: <https://n2t.net/ark:/87292/w9d48f>. This gives a folder-level listing of the physical documents in the collection. It does not include electronic records yet. ISU is still working on getting the systems in place to provide access to electronic records.

The Iowa State University Special Collections Department is also archiving our web site (currently from 2009 to September 2020): http://wayback.archive-it.org/1501*/https://www.aavp.org.

The following items will be sent to ISU for archiving in the AAVP file: MS-0475:

1. Four issues of our Newsletter: Vol. 42, No. 1, 2, 3; Vol. 43, No. 1, 2
2. Proceedings of the 2020 AAVP Annual Meeting
3. The list of the 2020-2021 AAVP committees and current members
4. The 2021 AAVP State of Illinois Annual Statement of Good Standing Certificate – good through April 2022
5. The 2021 AAVP State of Louisiana Certificate of Authority, dated March 15, 2021
6. Minutes of the 2020 AAVP Annual Board Meeting
7. Minutes of the 2020 AAVP Business Meeting
8. AAVP 2020 Business Meeting Power Point Presentation

The Archive Committee is still seeking any proceedings prior to 1977. We have no archived programs, abstracts or proceedings from 1952 to 1976 and any help would be greatly appreciated (clean out your office!).

If you have photos of AAVP events, we welcome them for inclusion in the Archive. You may send the hard copy to Ann Donoghue, or scan the photo at 300 to 400 dpi and email it to Ann. Please include the names of persons in the picture, and when and where it was taken. Hard copies will be sent to the Archive.

We are still looking for copies of the following Newsletters: Vol. 4 No. 2, Vol. 6 No. 2, or Vol. 11 No. 1. If you have a copy, you may scan and email, or send the hard copy. Hard copies may be sent to Ann Donoghue, 150 N County Road 3, Fort Collins, CO 80524. Electronic copies may be sent to ardonoghue@gmail.com.

Respectfully Submitted by Dr. Anne Donaghue, Chair, AAVP Archives Committee

AAVP Awards Committee members for 2020-2021: *Ann Donaghue, Chair, Tom Nolan, Miguel Suderman, Tom McTier, Heather Stockdale Walden*

Historian/History Committee Report

Ashley McGrew (Chair) (2021)	ashley.mcgrew@colostate.edu
Alan Marchiondo (2021)	amkj46@aol.com
Tom Nolan (2021)	parasit@vet.upenn.edu
Amy Biddle (2021)	asbiddle@udel.edu

The committee has been tasked with reporting on deaths of members from the parasitology community. Also, the committee has accepted the task of identifying and adding historically important “landmark” papers/manuscripts related to parasitology to our website and compiling historical images and other relevant information which can be displayed on the website. As this historical content continues to be developed, the current vision is to make it available in a “members only” section where only AAVP members (students and regular members) have access. Many thanks to Drs. Meriam Saleh and Jessica Rodriguez for their assistance and feedback in recent months. The committee continues to welcome recommendations of historical seminal papers from the entire membership.

The committee has a collection of vintage glass plate slides that we are working to digitize for display. We also are continuing to build a library of historical seminal papers, especially those focused on techniques and/or Diagnostic Veterinary Parasitology. In addition to the prospective website additions, our committee has devoted time and discussion this year to generating ideas for the integration of historical information into future newsletters and annual meetings. We view older material and resources as a potential mechanism for engaging students in the field and generating interest in the ways in which our discipline has evolved over the decades. We are working on the following: a bank of historical trivia, Who's Who in Parasitology (e.g. historical figure profiles), and a PowerPoint shell comparing historical perspectives and emerging trends—this latter file will then be used to create a podcast or video-recorded panel discussion that can be posted on the website. These ideas are still being developed, but we hope to have more files to post and/or drafts for review later this summer.

As for reported deaths of past AAVP members, we have two that the committee has noted. The first announcement was disseminated to the AAVP membership in the fall of 2020, providing information on the passing of Dr. David Young. A fund is being established to support graduate students in David's name. The details of how the money will be invested are still being discussed but, to date, we have received donations in the amount of \$11,250. These efforts were facilitated by David's widow, Corinne Young, and Doug Carithers. The second announcement contains information on the passing of Dr. Dawie Kok, and information was submitted by Leon J. Fourie and Alan A. Marchiondo. Details are included below.

Respectfully submitted by Ashley McGrew, Chair, AAVP Awards Committee



"Life is too short to drink warm beer!!"
-Dr. David R. Young PhD DVM

In Celebration and Loving Memory of:

David Robert Young

Entered into Life
April 15, 1957
Entered into Eternal Rest
August 14, 2020

Private Graveside Services:
August 20, 2020 @9:00 AM

Davis Cemetery
820 Pole Lone Rd, Davis CA
95618

Celebration of Life to be held at Young's Grove
October 10th 2020

In lieu of flowers please make donations to

Dr. David Young
American Association of Veterinary Parasitologists
Graduate Student Award

Checks should be made out to AAVP and
mailed to Corie Young
7243 East Ave, Turlock CA95380

"What we do in life echoes through eternity"
Maximus Decimus Meridius
Gladiator



In Memoriam

Dr. Dawie Kok, PhD

Nov 3, 1942 – October 5, 2020

Dr. Dawie Kok passed away in Bloemfontein Area, South Africa, on October 5, 2020 due to Covid 19 related causes.

He was a full professor and highly rated scientist in the Department of Zoology and Entomology at the University of the Free State from 1965 – 1999 and was very popular amongst the students and lecturers. He was well known for his broad knowledge base on both animal and plant taxonomy but his research focus was on parasitology.

He was one of the pioneers in the establishment of Clinvet International during 1999. During 2001 he resigned from his position at the University of the Free State to become a full-time employee of Clinvet International as a senior research scientist. He was mainly responsible for the conduct of helminth efficacy studies in companion and production animals.

Dr. Kok developed and refined infection models for a number of helminth species (e.g *Spirocerca lupi*, *Dipylidium caninum* and others). He was also responsible for establishing and maintaining a wide range of nematode cultures from both Europe and the US which were used in efficacy studies.

From 2009-2014 he served as Head of the Endoparasitology Department at Clinvet. He was well known and respected by Clinvet's clients for the very high scientific standards which he did set for himself and the rest of his research team.

Dr. Kok retired from Clinvet at the end of 2014 but still served as an Endoparasitology Consultant up until his passing away. His untimely departure really leaves a huge vacuum in a field of research where experienced and knowledgeable scientist are few and wide apart. Although Dr. Kok was not a member of AAVP, he was a well-known and respected colleague having collaborated on clinical efficacy studies of parasiticide products during his career.

Respectively submitted,

Leon J. Fourie

Alan A. Marchiondo

Announcements & Future Parasitology Meetings

Future Meetings of the AAVP

67th Annual Meeting: 25–28 June 2022 – Snowbird, UT

68th Annual Meeting: June 10–13, 2023 – Lexington, KY

American Society of Parasitologists 2020

The 96th annual meeting of the American Society of Parasitologists is scheduled to be held 26–27 July 2021 in a virtual-only format. [American Society of Parasitologists](#)

Conference of Research Workers in Animal Diseases (CRWAD) 2021

The 101st Annual CRWAD Conference will be held 3–7 December. AAVP continues to support the best student competition in the parasitology section of the CRWAD meeting. [CRWAD](#)

World Association for the Advancement of Veterinary Parasitology 2021

The 28th International Conference of the World Association for the Advancement of Veterinary Parasitology will be held at the Convention Center Dublin, Ireland, 19–22 July 2021. [WAAVP](#)

International Equine Infectious Diseases Conference 2021

The 11th IEIDC will be held in Deauville, France on September 27 – October 1, 2021. This meeting has a large parasitology component and will feature Dr. Georg von Samson-Himmelstjerna and Dr. Guillaume Salle as plenary speakers. [EIDC](#)

International Congress of Parasitology (ICOPA) 2022

The XIV International Congress of Parasitology will be held August 21 – 26, 2022, at the Bella Center Copenhagen in Copenhagen, Denmark. [ICOPA](#)

Receiving AAVP Listserv Messages

The AAVP listserv is our primary means of contacting the membership. These emails are sent from "support@aavp.org." To ensure you receive these messages, please whitelist "support@aavp.org" by adding it to your approved senders list. All you need to do is open an email message and verify the sender can be trusted. However, the exact procedure to whitelist a sender will depend on your email client. In addition to adding the AAVP address to your "Approved Senders List", other commonly used options among email clients are "Add Contact, Add to VIPs, Add Sender to Safe Senders List, or add to Primary," among others. If you are not receiving messages from support@aavp.org at all, contact your IT department for assistance.



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 Spring, Summer and Fall. Contributions to the Newsletter are highly encouraged and should be submitted by the dates listed below.

AAVP Newsletter Deadline for Submissions

<u>Newsletter</u>	<u>Deadline</u>
Fall 2021	October 20, 2021
Spring 2022	February 18, 2022
Summer 2021	May 24, 2021

Please contact the editor with questions regarding the Newsletter.