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

Martin Nielsen
President

Dear AAVP colleagues,

Happy Summer! It is early June and our Annual AAVP Meeting is fast approaching. I hope to see many of you in Snowbird and look forward to an exciting conference.

As announced via the membership email, we lost another AAVP giant this spring. Dr. Tom Klei passed away in late April. Tom served as AAVP President in 1987-1988 and was the recipient of the AAVP/Merial Distinguished Veterinary Parasitologists Award in 1993. Many years ago, when I was a first-year graduate student in Denmark, I reached out to him because of his status as a world authority in equine parasitology. Tom invited me to Louisiana and introduced me to the AAVP and to colleagues also working in equine parasitology. I just couldn't believe that someone of his stature would want to take time to talk to some random Danish dude who was pretty clueless about what to work on for his PhD. But Tom was friendly, supportive, and encouraging, and really was a big people's person. I know many of you share similar experiences with Tom. In so many ways, he exemplified the spirit of AAVP. Tom was all about community and networking. And most of all, he was extremely supportive and encouraging of the young generation. Tom will never be forgotten, and we will always work hard to follow his example. May he rest in peace.

With the Annual AAVP Meeting in just a few weeks, this is also the time for rotations on and off the Executive Committee. Doug Carithers is rotating off after a long and diligent tenure in service of the AAVP. Doug served on several committees, including the awards committee, before serving as secretary/treasurer for two terms. After this, he served another four-year term as a regular Executive Committee member and was AAVP President in 2020-2021. As many of you remember, Doug was program chair back in 2020, when the pandemic shut everything down. I must admit that I just thought that an outright cancellation of the Annual Meeting was the only realistic outcome. But due to Doug's perseverance and eternal optimism, we were one of the few organizations to organize a virtual meeting in the first year of the pandemic, and the meeting was a great success. We thank Doug for his service to the AAVP and look forward to seeing which AAVP committees he is going to serve on next. Adriano Vatta has served two terms as secretary/treasurer and is rotating off as well. Adriano has worked incredibly hard in this capacity and has identified several workflows in need of improvement. Ultimately, this has led us to pursue hiring an outside company to support us with many of the clerical tasks that have traditionally fallen on the secretary/treasurer. Adriano has also been instrumental to the success of our Annual Meetings, which have been especially demanding during the pandemic. We thank Adriano for his hard work and support of the AAVP and hope to see him serve again in some other capacity in the future. Julie Thompson has served as one of our student representatives during the past two years. Julie is very well organized and has proven an excellent communicator. She is always very thoughtful and has contributed greatly to our discussions over the years. Julie has been a pleasure to work with and we hope that she will consider serving AAVP in other capacities going forward.

Our new Vice President is Heather Walden, who I first met when we were both student members of AAVP a few years ago. Heather will join our upcoming female power trifecta of AAVP presidents, and we look forward to working with her. Our new secretary/treasurer is Dean Dailey, who, thanks to his predecessor, will be faced with a less work-intensive task. We thank Dean for his willingness to serve and look forward to working with him as well. A new student representative will be elected during the meeting in Snowbird, and we look forward to welcoming a new student member to the Executive Committee. A big congratulations, also, to Meriam Saleh and Pablo Jimenez for their election to the nomination committee. And most of all, thank you to all who decided to run for one of these positions. Your willingness to serve the AAVP is much appreciated.

American Association of Veterinary Parasitologists
67th Annual Meeting, June 25th-28th 2022, Snowbird,

As mentioned, we are finally getting to go to Snowbird, Utah in a couple of weeks. This was originally meant to be the venue for the 2020 meeting, but in our negotiations with the Snowbird folks about the cancellation fees, we offered to come back this year. While we consider this year's meeting our step back into the normal setup for AAVP Meetings, it is clear that we are still affected by the pandemic and that the financial consequences of the war in Ukraine are adding additional challenges. While abstract submissions and registrations are down compared to pre-pandemic years, it really strikes me how enthusiastic our student members are about the meeting. In fact, student registrations and abstract submissions are comparable to our very high pre-pandemic levels. A possible reason that our students and young career members are so keen on attending the meeting this year could well be that they have been disproportionately affected by the pandemic. Networking is so important at this career stage, and we all know how these connections can last a lifetime. Our young members have missed two years' worth of important networking opportunities, and I completely understand and appreciate the strong motivation among our student members for attending the AAVP Meeting. Us old folks just need to step it up and make sure we continue to offer these opportunities. At this stage, we expect well above 180 attendees in Snowbird, and Antoinette Marsh has worked hard to make the meeting a success despite the challenging times. We look forward to offering excellent networking opportunities to everyone attending, especially our young members.

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Submitted by Martin Nielsen, AAVP President

From the Secretary/Treasurer

Report will be given at the Annual Meeting.

67th Annual Meeting of the AAVP – Conference Information

Message from the Program Committee

Antoinette Marsh,
President-Elect and
Program Chair

The AAVP Annual meeting will be held in Snowbird, Utah, June 25-28. For those who can remember, the 2020 meeting was planned for Snowbird, then COVID hit, requiring a quick pivot with postponement of the meeting venue to 2022. Fast forward to 2022 and we are now at Snowbird!

For this year's programming, we opted to return to our traditional meeting format (pre-COVID). Only two invited talks on the last day will be delivered remotely. There will be no recorded sessions nor the ability to view presentations remotely during or after the meeting. We are retaining our digital scheduling meeting app for connecting with each other at the meeting and checking out the schedule on your smart phone.

Our outstanding and generous sponsors stepped up to truly help us with the financial side of this meeting as well as putting together the social events and associated lunch or evening talks. Because Snowbird is somewhat isolated and finding a coffee shop down the street will be impossible, the AAVP Executive Committee will have AAVP sponsored breakfast foods and drinks available prior to the morning sessions with beverages available during the morning and afternoon breaks. This is different from prior years and we think will be an improvement.

Overall, our program includes a variety of veterinary parasitology topics. We will follow our traditional Saturday afternoon to Tuesday morning programming outline. Briefly, for the accepted abstracts in the sessions, the talks should be about 12 minutes plus an additional 3 minutes for questions allotted to each presentation. The poster session will kick off with the poster promo (1 minute "elevator" pitch to the audience) with the formal poster session on Sunday, June 26, in the late afternoon.

We officially start on Saturday, June 25, with the Executive Board meeting with all the committee chairs in the Twin Peaks meeting room at the Snowbird Cliff Lodge. Here we will summarize the past year's activities and plan for the coming year. If you are a committee chair, please plan to attend or delegate an individual from your committee to substitute for the chair and then please inform Dr. Vatta (avatta2@lsu.edu), the current secretary-treasurer of the substitution. Each committee should have someone there.

Students should plan to arrive Saturday by 12:30 pm to attend the Virbac luncheon in the Wasatch room. Please get to know your peers and plan to attend all the student organized functions. You will be selecting the next student representative to serve you for the next two years during our time together at Snowbird.

The first presentation session will begin at 2:15 pm on Saturday with a talk from Dr. David Granstrom, member of the AAVP and Assistant Executive Vice President of the AVMA. This will be followed by talks provided by the award winners of the William C. Campbell One Health Award, Merck Animal Health Outstanding Graduate Student and the Boehringer-Ingelheim Distinguished Veterinary Parasitologist. Then, the Elanco Symposium includes Dr. Brian Herrin sharing the historical look at insecticide resistance in the cat flea (*Ctenocephalides felis*). The evening ends with the Elanco social to allow everyone to catch up after a very long absence.

Sunday morning is our traditional committee meetings. If you want to be part of a committee this is the opportunity to step up and participate. Volunteers are not turned away. We need the new members to come and begin to make those all-important professional connections and avenues into the AAVP leadership roles. Students are encouraged to participate in the committees if they are serious about the AAVP. Sunday includes a full day of sessions. IDEXX is providing a lunch and learn on data relative to companion animal parasitology. Later in the day, grab a scoop of ice cream provided by the NCVP and get the scoop on the poster presentations during the

1-minute poster pitch promo session. Later, Boehringer Ingelheim is hosting a seminar on heartworms in dogs provided by Dr. Jones, former president of the American Heartworm Society. The evening will conclude with the social provided by Boehringer Ingelheim.

Monday we are starting the scientific sessions slightly later at 8:45 am. We start our Business Meeting at 10:30 am. The Business Meeting is important to attend since we need everyone's input, will be voting and need to ensure a quorum. We may include a sign in sheet or someway to record attendance for this process. Monday afternoon we continue our scientific sessions. There is an informal poster session and we ask the presenters to be there. The evening programming will start with a seminar provided by Antech with Dr. Leutenegger providing new information on their molecular diagnostic platform for identification of drug resistant canine hookworms and potentially zoonotic *Giardia* strains. The evening will conclude with an Antech sponsored social.

Tuesday morning is the traditional President's Symposium. This year we have two speakers, Drs. Marta Campillo Poveda and Tom McNeilly covering the use of organoids as a system for parasitology research and discovery. Both talks will be delivered remotely from the University of Glasgow and the Moredun Research Institute. This is one of the lessons we learned from the last two meetings is that international speakers can participate in our meeting to benefit our membership. Finally, the popular AAVP-NCVP Parasite Case Session will be moderated by Drs. Gui Verocai and Mani Lejeune.

The students should stay through to Wednesday morning as the student representatives, Drs. Julie Thompson and Leonor Sicalo Gianechini, are planning Tuesday afternoon activities for the students.

The program committee, Drs. Doug Carithers, Adriano Vatta, Al Marchiondo, Julie Thompson, Martin Nielsen, Leonor Sicalo Gianechini, Jennifer Ketzis, and I worried, argued, considered contingencies and finally decided on a program worthwhile to travel to Snowbird and come back together in our traditional programming after the last few years' hiatus with the remote or hybrid programming. Adriano deserves a huge thank you from every single member. I appreciate all the efforts of the program committee, but I cannot express enough gratitude for the time and effort Adriano contributes to the AAVP. After this meeting Adriano will be passing his secretary-treasurer role to Dr. Dean Dailey. Thank you, Adriano, you are amazing!

I look forward to seeing everyone in Snowbird, hearing about your research and life updates. The Annual AAVP Meeting continues to be an integral part of our organization and professional connections. I am so appreciative of our sponsors who assist in making the meeting a reality. Lastly, don't forget your hat, sunglasses, and sunscreen to take advantage of the blue sky, sunshine, and mountains!

Submitted by Dr. Antoinette Marsh, Program Chair and President-Elect

Email: marsh.2061@osu.edu

AAVP Business Meeting Agenda

Monday, June 27, 2022: 10:30-12:00 noon

Ballroom 2 & 3

Agenda (duration of times are approximate):

1. 10:30-10:35 Opening remarks (Martin Nielsen)
   a. In Memoriam Dr. Bert Stromberg, Dr. David Lindsay, Dr. Tom Klei
   b. Approval of the 2022 meeting agenda
2. 10:35-10:40 President's Report (Martin Nielsen)
3. 10:40-10:45 Program Chair's Report (Antoinette Marsh)
4. 10:45-10:50 Committee updates summary (Martin Nielsen)
5. 10:50-11:05 Diversity, Equity, and Inclusivity (DEI) survey results (Grace VanHoy and Frank Hurtig)
6. 11:05-11:10 Proposed Changes to Constitution and Bylaws (Lauren Camp)
7. 11:10-11:15 Secretary-Treasurer report (Adriano Vatta)
8. 11:15-11:25 Remaining old business (AAVP members)
9. 11:25-11:35 New business (AAVP members)
10. 11:35-11:45 Next year's AAVP Meeting (Jennifer Ketzis)
11. 11.45-11.55 AAVP awards (Shelly Michalski)
12. 11:55-12:00 Close and transfer of presidency (Martin Nielsen)

Annual Meeting Daily Program

ONFERENCE PROGRAM	
Saturday, June 25, 2022	
7.00-13.15	**AAVP Executive Committee Meeting** *All AAVP officers and committee chairs please plan to attend* Room: **Twin Peaks, Level 10** Breakfast 7.00-8.00; Lunch 12.00-13.15
12.30-13.45	**AAVP Student member Meet and Greet - All Students Please Attend** **Lunch provided** **Sponsored by Virbac** Room: **Wasatch**
12.00-17.00	**CONFERENCE REGISTRATION** Coat Room A
13.45-14.00	**Learning the Meeting Mobile App with Jessica Rodriguez,** *Electronic Media Committee Chair* **Ballroom 2 & 3**
14.00-18.30	**PLENARY SESSION: Celebrating the AAVP** Room: **Ballroom 2 & 3**
14.00-14.15	**Opening remarks** AAVP President: **Martin Nielsen** AAVP President-Elect and Program Chair: **Antoinette Marsh**
14.15-15.45	**PLENARY SESSION** Moderator: **Antoinette Marsh** 1. Professional association management: Lessons learned **David Granstrom** (45 mins) *American Veterinary Medical Association* 2022 AAVP William C. Campbell One Health Award **Patricia Conrad** (45 mins) Veterinary Parasitologists: Are we 'natural' One Health practitioners? *University of California, Davis*
15.45-16.00	**Coffee Break (Ballroom Lobby)**
16.00-17.45	**AAVP AWARDS** Room: **Ballroom 2 & 3**
16.00-16.45	**2022 AAVP-Merck Animal Health Outstanding Graduate Student** Moderator: Shelly Michalski From dealing with crap to playing in it: My journey to parasitology Awarded to **Jennifer Cain** *University of Kentucky*
16:45-17:30	**2022 AAVP-Boehringer-Ingelheim Distinguished Veterinary Parasitologist** Moderator: Doug Carithers Awarded to **Richard J. Martin** *Iowa State University*
17:30-18:00	Break (no refreshments)
18:00-18:45	**Elanco Symposium** Room: **Ballroom 2 & 3** 2. A historical look at insecticide resistance in the cat flea (*Ctenocephalides felis*) **Brian Herrin** *Kansas State University*
19:00-21:00	Elanco Opening Night Social Room: **Golden Cliff/Eagles Nest**

Sunday, June 26, 2022		
7.00-8.15	AAVP Committee Meetings (Light breakfast for those volunteering for/on committees – Sponsored by AAVP) Breakfast set out at 7:00-7:20 - fetch breakfast from Ballroom Lobby and take to Magpie Committee Meetings: 7:20-8:15 Room: **Magpie**	
8.00-8.30	Light breakfast: morning social (Sponsored by AAVP) **Ballroom Lobby**	
8:30-12.00	CONCURRENT SCIENTIFIC SESSIONS	
8:30-10:00	**Session 1: Canine Hookworm** Room: **Ballroom 2 & 3** Moderators: Tim Geary & Nina Randolf	**Session 2: Wildlife I** Room: **Ballroom 1** Moderators: Heather Walden & Kathryn Duncan
8.30-8.45	3. Efficacy and safety of Simparica Trio® against immature (L4 and L5) stages of *Ancylostoma caninum* in laboratory dogs **Susan Holzmer** *Zoetis*	9. Molecular characterization of *Dictyocaulus* (Nematoda; Dictyocaulidae) infecting North American bison (*Bison bison*) **Hannah Danks** *Texas A & M*
8.45-9.00	4. Evaluation of a triple dewormer protocol to treat canine hookworms **Nina Kristen Randolph** *The Ohio State University*	10. Surveillance of parasites and canine distemper virus in free-ranging Canada lynx (*Lynx canadensis*) and fishers (*Pekania pennanti*) in Maine, USA **Corinna Hazelrig** *University of Georgia*
9.00-9.15	5. Canine fecal flotation and coproantigen immunoassay hookworm positive results by breed 2017-2021 **K. Wade Burton** *IDEXX Laboratories*	11. Detection of *Echinococcus* spp. in coyotes in the Midwest United States **Kamilyah Miller** *Kansas State University*
9.15-9.30	6. Molecular epidemiology of the isotype-1 Beta-tubulin F167Y benzimidazole resistance mutation in *Ancylostoma caninum* in pet dogs across the USA **Abhinaya Venkatesan** *University of Calgary*	12. A cryptic *Onchocerca* species in moose from southern Alaska **Matthew Kulpa** *Texas A&M University*
9.30-9.45	7. A novel Q134H isotype-1 Beta-tubulin putative benzimidazole resistance mutation is widespread in *Ancylostoma caninum* populations from pet dogs and greyhounds across the USA **John Gilleard** *University of Calgary*	13. Introduced parasites *Raillietiella orientalis* and *Angiostrongylus cantonensis* in non-native anurans in Florida **Heather Walden** *University of Florida*
9.45-10.00	8. AAVP canine hookworm task force: Where are we? **Antoinette Marsh** *The Ohio State University*	14. Prevalence and diversity of gastrointestinal helminths in mountain gorillas characterized by habituation status, age and sex **Jamila Norman** *St. George's University*

Sunday, June 26, 2022 (continued)		
10.00-10.30	Coffee Break (Sponsored by AAVP) **Ballroom Lobby**	
10:30-12:00	**Session 3: Control-Large Animal** Room: **Ballroom 2 & 3** Moderators: Grace VanHoy & Leonor Sicalo Gianechini	**Session 4: Diagnosis & Detection** Room: **Ballroom 1** Moderators: Andy Moorhead & Matthew Kulpa
10.30-10.45	15. A large-scale molecular epidemiology study to investigate origins of benzimidazole resistance mutations **Camila Queiroz** *University of Calgary*	21. Pharmacoeconomic study on the clinic usage and impact of Vetscan Imagyst on gastrointestinal parasite detection and treatment **Kennedy Mwacalimba** *Zoetis*
10.45-11.00	16. Combined anthelmintic treatments to control resistant nematodes in cattle: pharmacokinetic and field efficacy evaluations **Candela Canton** *Centro de Investigación Veterinaria de Tandil (CIVETAN)*	22. Comparative observational study on the detection of gastrointestinal parasites in dogs and cats on flea tick and heartworm disease preventives **Kennedy Mwacalimba** *Zoetis*
11.00-11.15	17. Efficacy of various *Bacillus thuringiensis* crystal proteins "IBaCC" against ovine *Haemonchus contortus* and equine Cyathostomins **Elizabeth Kass** *University of Rhode Island*	23. Detection of *Dipylidium caninum* coproantigen in experimental and natural infections **David Elsemore** *IDEXX Laboratories*
11.15-11.30	18. Ivermectin and moxidectin: Shortened equine strongylid egg reappearance periods investigated **Martin Nielsen** *University of Kentucky*	24. *Dipylidium caninum* coproantigen detection by immunoassay agrees with nucleic acid detection by PCR in dogs with experimental and natural infections **Melissa Beall** *IDEXX Laboratories*
11.30-11.45	19. Ivermectin efficacy and fecal egg shedding patterns in equine strongylid populations **Martin Nielsen** *University of Kentucky*	25. Droplet digital PCR as a tool to detect resistant isolates of *Dirofilaria immitis* **Sohini Kumar** *McGill University*
11.45-12.00	20. Assessment of the two anthelmintics commonly used in Arkansas small ruminants using a fecal egg count reduction test **Eva Wray** *University of Arkansas*	26. Characterizing circulating *Onchocerca lupi*-derived microRNA in naturally infected dogs and assessing their potential as diagnostic markers **Caroline Sobotyk** *Texas A&M University*
12.00-12.15	Stretch Break	
12.15-13.15	**IDEXX Luncheon Symposium** 27. What can data tell us about parasitology in companion animals? **Wade Burton & David Elsemore** Room: **Ballroom 2 & 3**	
13.15-13.30	Stretch Break	

Sunday, June 26, 2022 (continued)		
13.30-16.15	CONCURRENT SCIENTIFIC SESSION	
13.30-14.45	**Session 5: Molecular-Large Animal** Room: **Ballroom 2 & 3** Moderators: Martin Nielsen & Kaylee Kipp	**Session 6: Molecular-Small Animal & One Health** Room: **Ballroom 1** Moderators: Patricia Conrad & Megan Lineberry
13.30-13.45	28. Grab your keys and put your codon! Genomic adventures with the equine bloodworm: *Strongylus vulgaris* **Nichol Ripley** *University of Kentucky*	33. Novel pipeline for the identification of *Ctenocephalides felis* microbial genera with detection of widespread co-infection and associated vector phylogenetic diversity **Charlotte Manvell** *North Carolina State University*
13.45-14.00	29. Expansion of the molecular genetics tool kit of *Sarcocystis neurona* to aid in investigating its intracellular survival **Annapoorani Jegatheesan** *Purdue University*	34. Preliminary validation of a probe-based qPCR for detection of zoonotic *Onchocerca lupi* in clinical samples of companion animals **Maureen Kelly** *Texas A&M University*
14.00-14.15	30. Girl power: The microbiome of *Parascaris* spp. female gonads **Jennifer Cain** *University of Kentucky*	35. Development of rapid *in vitro* colorimetric enzymatic activity assay to differentiate macrocyclic lactone susceptible and resistant *Dirofilaria immitis* isolates **Emily Curry** *McGill University*
14.15-14.30	31. Probing a population problem by prospecting the parameters of *Parascaris* spp. **Constance Finnerty** *University of Kentucky*	36. X-treme loss of sequence diversity linked to neo-X chromosomes in filarial nematodes **Michelle Michalski** *University of Wisconsin*
14.30-14.45	32. Targeting the ITS-1/5.8S/ITS-2 region of the nematode rDNA cistron using long-read nanopore sequencing to support more comprehensive flexible nemabiome metabarcoding **Eleonore Charrier** *University of Calgary*	37. A preliminary proteomic analysis of *Baylisascaris procyonis* larval excretory-secretory products **Vishnu Manikantan** *Purdue University*
14.45-15:15	**Coffee Break (Sponsored by AAVP)** Room: **Ballroom Lobby**	
15.15-16.15	**Session 7: Immunology** Room: **Ballroom 2 & 3** Moderators: Roger Ramirez-Barrios & Kamilyah Miller	**Session 8: Drugs: *In vitro* & Molecular Analysis** Room: **Ballroom 1** Moderators: Pablo Jimenez Castro & J.B. Collins
15.15-15.30	38. Analysis of cytokine profiles in domestic cats (*Felis catus*) infected with *Cytauxzoon felis* **Elliott Zieman** *Eastern Illinois University*	42. Harnessing microbial ecology for broad-spectrum anthelmintic discovery **Mostafa Zamanian** *University of Wisconsin-Madison*

Sunday, June 26, 2022 (continued)		
15.30-15.45	39. Observations on coinfections of *Brugia pahangi* and *Dirofilaria immitis* in the Mongolian gerbil (*Meriones unguiculatus)* **Michael Dzimianski** *University of Georgia*	43. High-throughput screening for anthelmintic drug discovery **Mostafa Elfawal** *UMass Chan Medical School*
15.45-16.00	40. Cytokine levels in dogs during *Dirofilaria immitis* infection and treatment **Ruth Scimeca** *Oklahoma State University*	44. Anthelmintic activity of macrocyclic lactones on parasitic flatworms **John Chan** *University of Wisconsin-Oshkosh*
16.00-16.15	41. Transcriptomics elucidates dynamic responses of cattle immune responses to new infections by the gastrointestinal parasite *Ostertagia ostertagi* **Mariam Bakshi** *USDA ARS*	45. Naturally occurring variation in *cyp-35D1* modifies *Caenorhabditis elegans* responses to thiabendazole **J.B. Collins** *Northwestern University*
16:15-16:45	NCVP Sponsored Sweet Treat Break Poster Pre-scoop: Ice Cream and Beverages	
16.45-17.15	Poster Promo Presentations Moderators: Grace VanHoy & Gui Gomes Verocai Room: **Ballroom 2 & 3**	
17:15-18:30	**Poster Session** Room: **Ballroom Area**	
18.30-19:15	**Boehringer-Ingelheim Seminar** Moderator: **Doug Carithers** 46. Hard to believe dogs can survive live heartworms, harder to believe they can survive dead heartworms **Steve Jones** *American Heartworm Society (former president)* Room: **Ballroom 2 & 3**	
19:30-21:30	**Boehringer-Ingelheim Sunday Night Social** Room: **Primrose**	

Monday, June 27, 2022		
8.15-8.45	Light breakfast: morning social (Sponsored by AAVP) **Ballroom Lobby**	
8:45-10.00	CONCURRENT SCIENTIFIC SESSIONS	
8:45-10:00	Session 9: **Acari-Epidemiology** Room: **Ballroom 2 & 3** Moderators: Jennifer Ketzis & Kristin McClung	Session 10: **Wildlife II** Room: **Ballroom 1** Moderators: Sheila Mitchell & Nichol Ripley
8.45-9.00	47. Surveillance of ticks and their pathogens in the Texas Panhandle **Ian Daniel** *Texas Tech University*	52. Are helminths of the Pacific walrus, *Odobenus rosmarus divergens*, an indicator of changing food web dynamics in the Arctic? **Justin Sanders** *Oregon State University*
9.00-9.15	48. Evaluation of brown dog ticks from across the United States for pathogens important to veterinary and public health **Megan Lineberry** *Oklahoma State University*	53. Survey of gastrointestinal nematodes in North American bison (*Bison bison bison*) using nemabiome in the United States, a 2022 update **William Johnson** *Kansas State University*
9.15-9.30	49. Effectiveness of two topical formulations of fluralaner (Bravecto® and Bravecto® Plus) against US isolates of Asian longhorned tick (*Haemaphysalis longicornis*) infestations on cats **Frank Guerino** *Merck Animal Health*	54. Survey of zoonotic parasites identified in feces of Canada geese (*Branta canadensis*) in North-Central Oklahoma **Yoko Nagamori** *Oklahoma State University*
9.30-9.45	50. The wild life of ticks: using passive surveillance to determine the distribution and host range of ticks and the exotic *Haemaphysalis longicornis*, 2010-2021 **Alec Thompson** *University of Georgia*	55. Investigation of the prevalence of *Toxoplasma gondii* in waterfowl in the United States **Nicole Szafranski** *University of Tennessee*
9.45-10.00	51. Influence of tick characteristics on the microbiome of *Dermacentor variabilis* from across the United States (US) **Kathryn Duncan** *Oklahoma State University*	56. Surveillance of *Borrelia burgdorferi* in white-footed mice (*Peromyscus leucopus*) in Pennsylvania **Cameron Sutherland** *Kansas State University*
10.00-10.30	**Coffee Break (Sponsored by the AAVP) Ballroom Lobby**	
10.30-12.00	**AAVP Business Meeting and Awards** AAVP Executive Committee, Student Officers, Corporate Sponsor representatives, and Awardees stay for pictures Room: **Ballroom 2 & 3**	
12.00-13.30	Boxed lunch available after the meeting and take a walk outside	
12.00-13.30	**AAVP Students – Student Elections** **Snacks** **Sponsored by Virbac** Room: **Wasatch**	

Monday, June 27, 2022 (continued)		
13.30-16.45	CONCURRENT SCIENTIFIC SESSION	
13.30-15.00	Session 11: **Large Animal Diagnostics & Control** Room: **Ballroom 2 & 3** Moderators: Daniel Snyder & Grace Perrin	Session 12: **Epidemiology** Room: **Ballroom 1** Moderators: Wade Burton & Cameron Sutherland
13.30-13.45	57. Efficacy of phosphoethanolamine methyltransferases (PMTs) inhibitors against *Haemonchus contortus*: a potential new class of broad-spectrum anthelmintics **Leonor Sicalo Gianechini** *University of Georgia*	62. Seasonality of *Amblyomma americanum* (Acari: Ixodidae) and pathogen prevalence in north central Oklahoma **Kristin McClung** *Oklahoma State University*
13.45-14.00	58. Trends in occurrence of *Muellerius capillaris* among goats and sheep in NE USA and its clinical significance **Ranju Manoj** *Cornell University*	63. Retrospective survey of parasites identified in feces of 7,409 client-owned dogs at Oklahoma State University from 2007 through 2018 **Yoko Nagamori** *Oklahoma State University*
14.00-14.15	59. Metabarcoding of bovine *Eimeria* species using 18s rDNA and COI mtDNA markers **Venkateswara Rao Parimisetti** *University of Calgary*	64. Parasite management in nonhuman primates in zoological parks and research facilities **Jennifer Ketzis** *Ross University*
14.15-14.30	60. Retrospective evaluation of gastrointestinal nematodes in commercial North American bison herds: 2017-2021 at the Texas A&M University Parasitology Diagnostic Laboratory **Kaylee Kipp** *Texas A&M University*	65. Prevalence of gastrointestinal parasites in free-roaming cats in Florida **Alice Lee** *University of Florida*
14.30-14.45	61. *Cryptosporidium parvum* pyruvate kinase inhibitors with *in vivo* anti-cryptosporidial efficacy **Shahbaz Khan** *University of Illinois Urbana-Champaign*	66. Morphological and molecular identification of Ixodid ticks from the Cumberland Gap Region of Appalachia **Mary Kabir** *Lincoln Memorial University*
14.45-15:15	**Coffee Break (Sponsored by AAVP)** Room: **Ballroom Lobby**	
15.15-17.15	Session 13: **Ectoparasite Control** Room: **Ballroom 2 & 3** Moderators: Ann Donoghue & Corinna Hazelrig	Session 14: **Diagnosis I** Room: **Ballroom 1** Moderators: David Elsemore & William Johnson
15.15-15.30	67. Effects on mosquitoes fed blood from dogs following a single oral treatment with Bravecto® (fluralaner) **Andy Moorhead** *University of Georgia*	73. The scoop on incubating poop: Effects of temperature and duration on strongylid larval yields in coproculture **Abigail Vetter** *University of Kentucky*
15.30-15.45	68. Efficacy of a single oral dose of Simparica Trio® (sarolaner/moxidectin/pyrantel) in the prevention of *Borrelia burgdorferi* transmission from infected *Ixodes scapularis* to dogs **Kristina Kryda** *Zoetis*	74. Little eggs, big data. Seasonal and regional trends in equine strongylid egg counting across the USA **Martin Nielsen** *University of Kentucky*

Monday, June 27, 2022 (continued)		
15.45-16.00	69. Insecticidal activity of Simparica® and Simparica Trio®against *Aedes aegypti* in dogs **Sara Chapin** *Zoetis*	75. Diamonds in the intestinal roughage: Precision of luminal cyathostomin counts **Grace Perrin** *University of Kentucky*
16.00-16.15	70. Efficacy of Sarolaner in the treatment and prevention of induced infestations of *Haemaphysalis longicornis* in dogs **Jessica Rodriguez** *Zoetis*	76. Evaluation of contact hours and access to 3D digital slides on student performance of fecal egg counts in small ruminants **Sara Boggan** *Texas Tech University*
16.15-16.30	71. The efficacy of Simparica Trio® in the treatment of natural *Sarcoptes scabiei* and *Demodex canis* infestations in dogs **Kristina Kryda** *Zoetis*	
16.30-16.45	72. I feel the need, the need for speed, when killing ticks: Comparison of *Ixodes scapularis* speed of kill on dogs treated with Bravecto® Chews or Simparica® Trio **Kathryn Reif** *Kansas State University*	
17.15-18:00	**POSTER SESSION (informal session)** Room: **Ballroom Area**	
17.00-17:45	**DACVM Meeting** Room: **Ballroom 2 & 3**	
18.00-18:45	**Antech Seminar** Moderator: Cathy Meeks 77. Identification of treatment-resistant canine hookworms and *Giardia* strains with zoonotic potential as part of a broad intestinal parasite PCR panel **Christian Leutenegger** *Antech* Room: **Ballroom 2 & 3**	
19:00-21:00	**Antech Evening Social** Room: **Primrose**	

Tuesday, June 28, 2022	
8.00-8.30	Light breakfast: morning social (Sponsored by AAVP) Ballroom Lobby
8:30-10.15	**PRESIDENT'S SYMPOSIUM: Veterinary Parasitology: Reaching New Heights**
8.30-10.15	**PRESIDENT'S SYMPOSIUM** Moderator: Antoinette Marsh Room: Ballroom 2 & 3 **Announcement of Student Winners & Introduction of Speakers (10 mins)** 78. Gastric organoids as a novel *in vitro* model to understand early events in ruminant gastro-intestinal nematode infections **Tom McNeilly** (45 mins) *Moredun Research Institute, Midlothian, UK* 79. Recasting of intestinal epithelial cell fate by *Heligmosomoides polygyrus* and its secreted products **Marta Campillo Poveda** (45 mins) *University of Glasgow, UK* **Student Award Winners! Please stay afterwards for group photo.**
10.15-10.45	**Coffee Break (Sponsored by AAVP)** **Room: Ballroom Lobby**
10.45-12.45	**AAVP-NCVP Parasite Case Discussions** Moderator: **Gui Verocai and Mani Lejeune** Boxed lunches for attendees following the session (sponsored by NCVP) Room: **Ballroom 2 & 3**
12.45	Meeting adjourns – Happy Travels to You!
12.45	AAVP Students-Critical Manuscript Review Boxed lunches for students (sponsored by Virbac) Room: **Ballroom 1**

American Association of Veterinary Parasitologists
67th Annual Meeting, June 25th-28th 2022, Snowbird,

2022 AAVP PROGRAM POSTER PRESENTATIONS

Please put up all posters in the **Ballroom Area** by Sunday morning (8:15 AM, 6/26/2022) and leave your poster up until the end of the Monday poster viewing session (6:00 PM, informal session). Plan to stand at your poster (formal judging for students) during the Sunday, 6/26/2022 afternoon poster social.

Sunday, June 26, 2022	
17:15-18:30	Poster Viewing
80. Taxonomic confirmation and laboratory life history of *Ornithodoros tartakovskyi* **Pedro Cachu Cuevas** *University of Wisconsin-Oshkosh*	
81. A survey of piroplasms in white-tailed deer in the southeastern United States to determine their possible role as *Theileria orientalis* hosts **Alec Thompson** *University of Georgia*	
82. Survey of U.S. based veterinarian perceptions on canine hookworms **Sara Jessica Ochoa** *Kansas State University*	
83. Monitoring *Strongyloides* spp. infections in ruminant cases submitted to the New York State Veterinary Diagnostic Laboratory **Timothy Wu** *Cornell University*	
84. *Dirofilaria immitis* prevalence in shelter cats in south Texas **Ilana Mosley** *Texas A&M University*	
85. The complete mitochondrial genomes of *Dermacentor albipictus* variants: phylogeny and diagnostic insights **Jeba Jesudoss** *Kansas State University*	
86. *In vitro* effects of phyto-medicine against *Ascaridia galli* **Muhammad Arfan Zaman** *University of Veterinary and Animal Sciences, Lahore (Jhang Campus)*	
87. Monitoring of ivermectin residues in bovine and pork tissues **Candela Canton** *Centro de Investigación Veterinaria de Tandil (CIVETAN)*	
88. Screening pipeline for gastrointestinal nematodes drug discovery **Emily Goetz** *UMass Chan Medical School*	
89. Assessing the prevalence of *Echinococcus multilocularis* and *Taenia* spp. in dogs **Joseph Wray** *Virginia Tech*	
90. Hunting dogs infected with *Trypanosoma cruzi* have a high prevalence of tick-borne co-infections **Joseph Wray** *Virginia Tech*	
91. *In vitro* fecundity predicts *in vivo* fecundity in the *Brugia pahangi*– Mongolian gerbil model **Teagan Janness Joring** *University of Wisconsin-Oshkosh*	

Sunday, June 26, 2022 (continued)	
17:15-18:30	Poster Viewing (continued)
92. The cellular immune response to infection by *Dirofilaria immitis* larvae in the peritoneal cavity and peritoneal wall of the Mongolian jird (*Meriones unguiculatus*) **Elyssa Campbell** *University of Georgia*	
93. High prevalence of *Trypanosoma cruzi* in hunting dogs of Virginia and West Virginia: Preliminary results **Aida Pereyra Cruzado** *Virginia Tech*	
94. Prevalence of *Dirofilaria immitis* and *D. repens* in the Middle East and North Africa: A meta-analysis **Katie Izenour** *Auburn University*	
95. A Trichy decontamination situation: characterizing *Trichomonas gallinae* survival after disinfectant exposure **Morgan Simpson** *Lincoln Memorial University*	
96. Natural infection of *Trichinella* sp. in a domestic cat from Oklahoma **Tiana Sanders** *Oklahoma State University*	
97. Prevalence of gastrointestinal nematodes on Wyoming sheep operations compared to wild bighorn sheep **Md Ashraful Islam Bhuiya** *University of Wyoming*	
98. Diversity and prevalence of piroplasms in the genera *Babesia*, *Theileria*, and *Cytauxzoon* from Ixodid ticks in the Cumberland Gap Region **Nathan Turrell (Presented by Mary Kabir)** *Lincoln Memorial University*	

Educator's Corner

Andrew Moorhead, Chair
Education Committee

Great news! We will be having an in-person AAVP-CAPC Educators' Symposium this year. I want to thank CAPC for their continued support of this symposium. The topic of the symposium will be incorporation of parasitology with Competency-Based Veterinary Education (CBVE). The framework for the CBVE can be viewed at: https://www.aavmc.org/wp-content/uploads/2020/10/CBVE-Publication-1-Framework.pdf.

Details as they stand now (more to follow):

1. Who can attend?

AAVP members in good-standing who currently teach veterinary parasitology.

2. When and where is the symposium?

December 18-20 in Athens, **GA** at the University of Georgia, College of Veterinary Medicine. Arrival is Sunday the 18th with a reception, followed by an all-day program on Monday the 19th, and departure on Tuesday the 20th.

3. Where do I stay?

We have reserved a block of rooms at the UGA Center for Continuing Education and Hotel (https://www.hotel.uga.edu/). More details regarding room reservation will be forthcoming.

4. What is paid for?

One hotel room will be provided per school for the nights of the 18th and 19th. If more than one person is coming from a school and they need a separate room, they will need to book it at their own costs. There will be a reception with food on Sunday the 18th. Breakfast, lunch, and dinner will be provided on the 19th. Breakfast will be provided on the 20th.

5. How do I get there?

Quite a few of you are within driving distance. If you are flying, you will fly into Atlanta Hartsfield-Jackson Airport (ATL). You can then rent a car or take a shuttle (https://groometransportation.com/). The shuttle will take you directly to the UGA hotel. It is approximately 80 miles from the airport to Athens.

6. How do I register?

A formal registration form will be sent later in the year. However, we do want to gauge initial interest. If you are interested in attending, please fill out this form:
https://ugeorgia.ca1.qualtrics.com/jfe/form/SV_cPkh4tvVgLm1Gaq

We are excited to return to an in-person format, and hope that you will be able to attend. Please let Andy Moorhead (amoorhed@uga.edu) know what questions you have.

Submitted by Andy Moorhead, Education Committee Chair

Student Delegates Update

Hi everyone! We are getting SO excited about the upcoming conference! Below are details of our student meetings this year:

Saturday June 25th, 12:30pm: Meet-and-greet lunch sponsored by Virbac and Parasitology Trivia co-hosted with members of the History ad hoc committee

Monday June 27th, 12:00pm: Student Officer elections and lunch sponsored by Virbac

Tuesday June 28th, 12:45pm: Critical manuscript review (so we can improve ours!) with AAVP President, Dr. Martin Nielsen, and lunch sponsored by Virbac

Following this discussion, we will have our annual student "trip" where we will enjoy the BEAUTIFUL outdoors at the Snowbird venue. All interested students should complete the following Google doc to receive additional details.

https://forms.gle/KVoH2pgtyFjG7PEt8

We are so thankful for the AAVP Executive Committee for providing hotel rooms to the Young Investigator Travel Grant recipients!

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. Additionally, please follow the Student Chapters of the AAVP Facebook page to keep up with any updates. Let us know if you have any questions! We look forward to watching your presentations and catching up soon!

Julie Thompson (jmthompson2961@gmail.com) & Leonor Sicalo Gianechini (sicalo.leonor@uga.edu)

Julie Thompson (2022)

Leonor Sicalo Gianechini (2023)

AAVP Committee Reports

Nominating Committee Report and Election Results

Alice Lee, Chair
Nominating Committee

The Nominating Committee consists of 6 members with staggered three year terms, and its current members are:

Term Ends	Committee Members	
2022	Alice Lee	Andrew Moorhead
2023	Brian Herrin	Jessica Rodriquez
2024	John Gilleard	Guilherme Verocai

The committee is charged with developing the ballot for annual election. Each year a new Vice President and two Nominating Committee members are elected, and every 2 years a new Secretary-Treasurer is elected. We are grateful to all the nominees who agreed to run this year:

Vice President	**Secretary-Treasurer**	**Nominating Committee**
Jason Drake	Dean Dailey	Richard Gerhold
Heather D. S. Walden		Pablo Jimenez Castro
		Manigandan Lejeune
		Meriam N. Saleh
		Molly Savadelis

Ballots were distributed electronically to 440 AAVP members and a total of 133 ballots were completed. Thank you to all the members who voted!

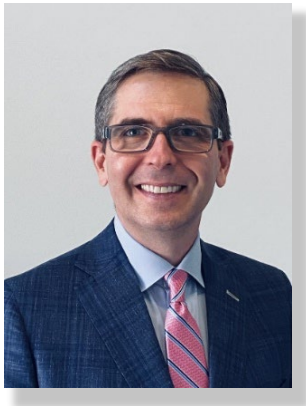
Respectfully submitted: Alice Lee, Nominating Committee Chair

The 2022 Election Results

VICE PRESIDENT

Heather D. S. Walden

Secretary/Treasurer



Dean Dailey

NOMINATING COMMITTEE

Pablo Jimenez Castro

Meriam N. Saleh

Congratulations to each of you!
Respectfully submitted by Alice Lee, 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 efforts prior to the meeting in selecting awards recipients.

• The nominators and those who took the time to submit letters of support for all of the nominees in 2022.

• Committee members and willing ad-hoc judges in attendance who will be participating in the judging of the student competition.

• The executive committee for their hard work in ensuring the smooth operation of this committee.

Shelly Michalski

Molly Savadelis

• 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.

There were 14 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 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 2022

2022 AAVP Awards Committee members: *Shelly Michalski* and *Molly Savadelis* (Co-Chairs), Joe Camp, Christian Epe, Peter Thompson, Dean Dailey, Lora Ballweber, Meriam Saleh, Javier Garza, Kelly Allen, Lisa Young, Rachel Imai, Lindsay Starkey, and Alice Lee

AAVP-Boehringer Ingelheim Distinguished Veterinary Parasitologist Award

Richard Martin

Dr. Richard Martin, of Iowa State University, has been selected as the 2022 Distinguished Veterinary Parasitologist Award recipient. This prestigious award recognizes and honors the outstanding contributions of an AAVP member to the advancement of veterinary parasitology. Dr. Martin's full biography will be featured in the annual meeting's proceedings, and his presentation entitled, "Vile Worm: Anthelmintics and Ion-Channels" will take place during a special awards session at the meeting in Utah. In addition to the honor this award brings, Dr. Martin will receive an engraved plaque, a $1,500 monetary award provided by Boehringer Ingelheim and the AAVP will contribute toward the reimbursement of expenses necessary for the recipient to attend the Society's annual meeting.

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

AAVP William C. Campbell One Health Award

Dr. Patricia Conrad of the School of Veterinary Medicine, University of California, Davis has been selected as the 2022 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. Conrad's full biography will be featured in the annual meeting's proceedings, and her plenary address entitled "Veterinary Parasitologists: Are we 'natural' One Health Practitioners?" will take place during the opening session at the meeting in Utah. AAVP will contribute toward the reimbursement of expenses necessary for the recipient to attend the Society's annual meeting.

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

Patricia Conrad

AAVP-Merck Outstanding Graduate Student Award

Jennifer Cain

Ms. Jennifer Cain, of the University of Kentucky, has been selected as the recipient of the 2022 AAVP-Merck Outstanding Graduate Student Award. Under the supervision of Dr. Martin Nielsen, Jennifer's Ph.D. work has focused on the investigation and description of the microbiome of *Parascaris* spp. Jennifer's presentation will take place during a special awards session at the annual meeting in Utah and is entitled, "From Dealing with Crap to Playing in it". This award includes reimbursement of travel expenses by the AAVP, an engraved plaque and a monetary award of $1,000 provided by Merck Animal Health.

Congratulations to **Ms. Cain**!

AAVP-CAPC Graduate Student Award in Zoonotic Disease

Ms. Megan Lineberry, of Oklahoma State University College of Veterinary Medicine, has been selected as the recipient of the 2022 AAVP-CAPC Graduate Student Award in Zoonotic Disease for her work on novel diseases vectored by brown dog ticks (*Rhipicephalus* spp.). She is currently a graduate student in Veterinary Parasitology at Oklahoma State University through the College of Veterinary Biomedical Sciences. Her most recent publications discuss ticks of importance to dogs as well as detection of *Trypanosoma cruzi* in kissing bugs. This award includes an engraved plaque and a monetary award of $1,000 provided by CAPC.

Congratulations to **Ms. Lineberry**!

Megan Lineberry

Best Student Paper and Poster Competitions

Over 35 students have entered the competition for the 2022 joint meeting! The Best Student Paper competition and the Best Student Poster competition are 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).

Diversity, Equity and Inclusion Committee Report

Meriam Saleh and **Andrew Peregrine, Co-Chairs;** Members: Lauren Camp, Frank Hurtig, Malika Kachani, Ariceli Lucio-Forster, Ashley McGrew, Jessica Rodriguez, Barbara Shock, Grace VanHoy

The Diversity, Equity, and Inclusion Committee has been busy compiling the results of our AAVP Membership survey. Thank you to all of the members who took the time to complete the DEI survey. Your input is invaluable and much appreciated. We will share the survey findings during the Business Meeting at the annual AAVP meeting in Utah.

For this newsletter's DEI corner, I would like to share a link to this article titled "Proactive Personal Pronoun Use: Creating a Culture of Inclusion in Your Practice" authored by Dr. Dane Whitaker, the current President of Pride Veterinary Medical Community (PrideVMC), for those who may be interested (https://www.aaha.org/publications/trends-magazine/trends-articles/2021/mar-2021/proactive-personal-pronoun-use/). I often hear many questions about personal pronoun usage and thought this was a great resource to share for those who want to learn more about this inclusive practice. Stay safe and well!

Respectfully submitted, Meriam Saleh, Co-Chair, DEI Committee, msaleh@cvm.tamu.edu and Andrew Peregrine, Co-Chair aperegri@ovc.uoguelph.ca

Education Committee Report

Andy Moorhead, Chair; Members: Heather Walden, 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 2022:

1. The Education Committee is organizing the biennial Educators' Symposium which is planned as an in-person meeting in December 2022 at the University of Georgia, College of Veterinary Medicine, Athens, GA. CAPC is partnering with AAVP and will provide funding support for 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. Andy Moorhead, Chair, AAVP Education Committee

Constitution and By-Laws Committee Report

Lauren Camp, Chair; Members: Roberto Cortinas, Miguel Suderman

Summary of Proposed Changes to Constitution and By-Laws

In response to a request from the Executive Committee the Constitution and Bylaws committee unanimously agreed with proposals to modify the AAVP Constitution and Bylaws. The proposed changes include changing the criteria for being regarded as a member in good standing and changing the status of the two elected student members from representatives to Student Officers with voting rights. These proposed changes have been emailed to the AAVP Membership this spring. The changes to the Bylaws and the Constitution will be voted on at the AAVP annual meeting in June.

The two proposed changes are:

1. Change the definition of a member in good standing to be those who are current on their membership dues.
2. Change the status of the two student representatives to Student Officers and eliminate the student committee.

These proposed changes are presented below.

Forfeiture of membership (emailed to AAVP members on 4/13/2022)

Constitution:

Current wording:

Article III, Section 5. Forfeiture of membership will occur when dues are not paid for at least two consecutive years, a letter of notification has been sent, and neither back dues nor current dues have been paid within 60 days of the date of mailing the notification. A member who has forfeited membership by nonpayment of dues must reapply for membership.

Suggested changes:

Replace Article III, Section 5 in its entirety with: Forfeiture of membership will occur when dues have not been paid for the year.

Bylaws:

Current wording:

Point 2. The annual dues of the association are $75.00 (students $30.00). To be a member in good standing, annual dues are due not later than January 31st in that calendar year for any year. When dues are in arrears, the Secretary-Treasurer shall notify the delinquent member of the Association's intention to remove his or her name from the membership roll. The Executive Committee shall make recommendations to the membership concerning changes in dues amounts.

Suggested changes:

Replace Point 2 in its entirety with: The annual dues of the association are $75.00 (students $30.00). Membership fees for the following year are due on or before December 31 of the current year. However, a grace period will be allowed until January 31 of the following year. To be a member in good standing, annual dues must be paid not later than January 31st of that calendar year. Members who have not paid their dues by January 31 of that calendar year will forfeit their membership and must pay their dues before their membership is reinstated.

Change of Student Representatives to Student Officers (emailed to AAVP membership on 5/20/2022)

Constitution: Article IV, Section 1

Current wording:

Officers of this Association shall consist of the following: President, President-elect, Vice President, Secretary-Treasurer, and Immediate Past President.

Suggested change: Officers of this Association shall consist of the following: President, President-elect, Vice President, Secretary-Treasurer, Immediate Past President, and two Student Officers.

Constitution: Article IV, NEW Section 13

Suggested wording:

Student Officers shall be elected by student members of the AAVP attending the annual AAVP Meeting. Any student who is a current and active member of AAVP is eligible to run for the Student Officer positions. Student Officers will serve as general resources and representatives for all undergraduate, graduate, veterinary, and PhD students. They will facilitate formation of AAVP Student Chapters. They will communicate with student members of AAVP to provide information and deadlines related to the annual Meeting. They will co-plan student events at the annual Meeting including lunch events, get-togethers, and elections. They are members of the Executive Committee for AAVP and shall attend scheduled meetings of the Executive Committee.

Constitution: Article V

Suggested addition about Student Officers:

Elections for new Student Officers occur at the AAVP Annual Meeting. Any student member in good standing can be nominated to the two-year position, and nominations are solicited prior to and during the AAVP Annual Meeting. Elections are held at the Annual Meeting, during which nominees will provide a short biographical sketch of themselves in person. All student members in good standing present at the Annual Meeting are eligible to vote. A simple majority of all votes cast determines the next elected Student Officer. Terms for Student Officers are offset by one year, in order to maintain continuity.

Bylaws: Point 1, Student Committee

Suggested change: This section should be deleted from the Bylaws. Students will now be Officers of the Executive Committee, so the Student Committee is no longer needed.

Respectfully submitted: Lauren Camp, Chair

Outreach, Publication and Research Committee Report

No report at this time.

AAVP 2023 Conference Committee Report

We look forward to seeing everyone again back in Lexington, Kentucky next year. The dates will be June 10-13, 2023.

Respectfully submitted by Dr. Jennifer Ketzis, Chair, AAVP 2023 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: Connect with your fellow AAVP members on our Facebook page (American Association of Veterinary Parasitologists) and on Twitter (@AAVParasit). If you'd like AAVP to share one of your posts or a post of interest, please tag @AAVParasit in your post, retweet, or comment, or send us a message. We love to share your and your students and colleague's accomplishments as well as any interesting parasitology related news. Don't forget to follow @AAVParasit on Twitter and spread the word about our members' research by posting during the conference with the hashtag: #AAVP2022.

Mobile App: We have a new app for this year's meeting. Please delete the "Attendify" app and download the new app by searching "Eventsential" in the Apple App Store or Google Play Store. Once downloaded, open the Eventsential app and search for "2022 AAVP Annual Meeting." An event code will be emailed to registered members prior to the start of the conference and will also be in the AAVP meeting proceedings. The app will go live on June 18th. Feel free to set up your personalized agenda and chat in the social timeline prior to the meeting. A live demonstration of the app will take place at 13:45 on Day 1 of the conference, prior to the Plenary Session. 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, Dean Dailey, Roberto Cortinas, Tejbir Sandhu, Ann Donoghue, Erica Burkman, Ashley Steuer

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

Finances Committee Report

Report will be delivered at the Annual Meeting.

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. Proceedings of the 2020 and 2021 AAVP Annual Meeting
3. The list of the 2020-2021, and 2021-2022 AAVP committees and current members
4. The 2022 AAVP State of Illinois Annual Statement of Good Standing Certificate – good through April 2023
5. The 2022 AAVP State of Louisiana Certificate of Authority
6. Minutes of the 2020 and 2021 AAVP Annual Board Meeting
7. Minutes of the 2020 and 2022 AAVP Business Meeting
8. AAVP 2020 and 2021 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. We would greatly appreciate any donations (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. Ann Donoghue, Chair, AAVP Archivist Committee

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Historian/History Committee Report

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Our group has been tasked with reporting on the passing of members from the Parasitology community; and we also have accepted the task of building a resource bank of historically relevant information. In reference to this latter aim, we have continued to identify historically important “landmark” papers/manuscripts related to Parasitology, as well as compile historical images and information which can be displayed on the website in the future. We have digitized a large collection of over 100 vintage glass plate slides. The committee

continues to welcome recommendations of historical seminal papers from the entire membership. We have created a bank of historical trivia in the area of Parasitology and this will be incorporated into one of the student events at the annual meeting.

As for reported deaths of past AAVP members, we have three that the committee has noted, including the passing of Dr. Bert Stromberg, Dr. David Lindsay, and Dr. Tom Klei. An announcement and obituary-related information was disseminated to the AAVP membership in each instance; and as a committee, we worked to highlight their lives and contributions in AAVP communications throughout the year.

Upcoming Student Event at the Annual Meeting:

The members of the History ad hoc committee have teamed up with the student representatives to create parasitology trivia for use during the first student lunch event at the 2022 AAVP annual meeting in Snowbird, Utah. We are excited for this collaboration and hope the students enjoy learning about significant parasitology history.

Acknowledgement of the Passing of Dr. Tom Klei:

Our group wanted to formally acknowledge the recent passing of our friend, Dr. Tom Klei. Dr. Klei will be deeply missed by the entire AAVP community. Information regarding his passing was disseminated to the membership in recent weeks. Below are some of the sentiments posted publicly on the wall associated with his obituary… comments were numerous, and painted a poignant picture of the love and deep impact Tom leaves behind. We have pasted a few quotes below that particularly resonated… perhaps each of you will tuck some of the 'bolded' words into your pocket and carry them with you…

"Our world is richer having shared it with Tom."

*"We remember Tom with great **humor** and his always **seeing the bright side**"*

*"A true **servant leader**, accomplished and distinguished **researcher**, and **friend** to all. The kind of guy who would give you the shirt off his back. Our world is different without him."*

"I have seen a lot of good people in our field of science but it would not be easy to find anyone that was better."

***"Friendly, supportive, encouraging, engaging**. Tom was a **role model** for me. I still try to follow his example today."*

*"Tom always had a **sincere** interest in everyone--he was one of the most **unselfish** persons I have ever known. His professional contributions and outstanding personal moral attributes have influenced many and will continue to do so for generations to come."*

*"But more than all of that, Tom Klei was a **scholar and a gentleman**. He collaborated with colleagues in academia and in industry and was at all times committed to the highest standards of scholarship and collegiality."*

*"Tom's **sparkling smiling eyes** and **compelling voice** graciously shared his love of science, good data, cajun food, duck hunting, fishing, and the telling of tall tales about all of the above."*

*"Dr. Klei was a great scientist and parasitologist, and a **gracious** person."*

The wall of comments and obituary are below for your reference:

https://www.dignitymemorial.com/obituaries/baton-rouge-la/thomas-klei-10716914

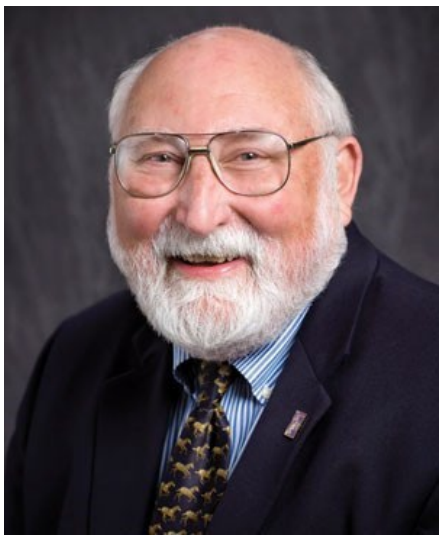
Respectfully submitted by Ashley McGrew, Chair, AAVP Historian/History Committee

In Memoriam

Tom Klei

Thomas R. Klei

December 11, 1942 – April 18, 2022



Thomas R. Klei passed away peacefully at home with his family at his side in the late afternoon hours of Monday, April 18, 2022 after a twenty-plus year struggle with heart failure and an acute forty-two day battle with liver cancer. He remained steadfast, optimistic, and pragmatic in the face of his recent diagnosis, yearning to make his 80th birthday and Christmas (his favorite holiday) this year.

Tom was born in Detroit, Michigan, on December 11, 1942 to Violet Marie and Walter Klei. His father was killed on a naval ammunition ship, USS Mount Hood, on November 10, 1944. Tom always shared the story, vividly remembering being almost 2 years old when the service men knocked on the front door and delivered the death notification to his mother. When Tom was 5, his mother remarried Donald Benson, a veteran in the U.S. Army 25th Infantry Division. Don raised Tom as his own, and Tom considered Don to be his “Dad” and loved him dearly. Don taught him how to shoot, using 22 rifles with 22 short ammunition in the basement of their home. He also taught Tom how to hunt, which became a life-long passion and hobby. His mother and father had three more boys, Dean, Dennis and Donnie; Tom was a natural caregiver and patient elder brother to them all. Tom attended elementary school in Detroit and moved to Roseville, MI in 1953. He was a stalwart offensive lineman for the Roseville High School “Wildcats” and was recognized as MVP in 1959. After high school, Tom attended Northern Michigan University (NMU), graduating in 1965 with a major in Biology and double minors in Chemistry and Physical Education. His time at NMU included two years of college football as an offensive lineman, and the position of President in the Tau Kappa Epsilon Fraternity. Tom married his wife, Rosemary Johnston, August 27, 1965 and earned his Ph.D. in Parasitology and Microbiology from Wayne State University in 1971.

Tom’s extensive career in academia began with his National Institutes of Health post-doctoral fellow at the University of Georgia (1971-1973), where he was also a Research Associate in the Department of Parasitology. From 1973-1975, he was an Assistant Professor of Biology at Millersville State College in Pennsylvania. He joined the faculty at the LSU School of Veterinary Medicine (SVM) in 1975, serving as Assistant Professor of Veterinary Microbiology and Parasitology. He was jointly appointed in 1976 to the Department of Veterinary Science in the LSU Agricultural Center, where he developed a research program on helminth parasites of horses. In 1992, he was given the highest professorial ranking awarded by LSU, the

prestigious Boyd Professorship. He served as the Associate Dean for Research and Advanced studies in the LSU School of Veterinary Medicine for 11 years and retired as the LSU Interim Vice Chancellor for Research and Economic Development in 2013.

Dr. Klei's research career focused on the biology and host-parasite relationships of nematode parasites, with a focus on immunology and pathogenesis in experimental models of human lymphatic filariasis. His research was funded by a National Institutes of Health (NIH) R01 sub-contract as part of a team to develop a vaccine against onchocerciasis. He had continuous extramural support for his research from NIH, the World Health Organization, the USDA and the pharmaceutical industry since 1976. He was the principal investigator (PI) on the INBRE Louisiana Biomedical Research Network Program since 2007 and was the co-director of a NIH T32 grant. He was also a co-investigator of a NIH COBRE grant in Experimental Infectious Disease. Tom was also dedicated to helping young researchers. He originated and was the PI of a NIH T35 grant for training veterinary students in biomedical research, and he trained numerous graduate students, postdoctoral fellows and research professors over his career of 43 years. Tom also served on many committees within the SVM and LSU as well as national and international groups. He was true scholar and a gentleman scientist of the highest caliber.

He was a devoted and loving husband, father, brother and Paw Paw. His family was the most important thing to him, and everything he did in life was for them. He will always be a "hero" in the eyes of his daughter. He was exceptionally proud of his only grandson, Thomas, his namesake. Tom was a master cook and experimented with many different tastes, enjoying different cuisine from around the world. Many thought of him as "Santa Claus." At Christmas, he would visit LSU campus in his red Santa suit and accompanied by his jingling elves. He would hand out candy canes to the children and pretty ladies, and he carried little pony beers for the good BIG boys. He loved to travel the world with family or friends, whether for work or just as an adventure for fun. He was an avid hunter and enjoyed the Sportsman Paradise that is Louisiana. He was a duck hunter at heart! He had many friends and considered them as family. He was a host with the most for many Klei events held at his home, including the annual Christmas Eve party. He was a generous, kind, smart man who supported anyone in need with wise words or a big hug. He will be missed beyond words of expression but will live in the hearts of those he influenced, loved and inspired.

Tom was preceded in death by his grandparents, Albert Blyer and Lula Blyer, his fathers, Walter Klei and Donald Benson, mother, Violet Benson, devoted wife of 43 years, Rosemary Johnston Klei, brothers, Dean Benson and Donnie Benson, and his caring wife, Cynthia Morris. He is survived by his loving daughter, Catherine Marie Klei-Brackin, son-in-law, James Leslie Brackin, and grandson, Thomas James Brackin, brother, Dennis Benson, niece, Melissa Uresti, Cynthia's son, William Morris, (wife Deelee Szczurek Morris, and daughter Violet Morris), Cynthia's daughter, Laura Morris Goodson (husband Bradley Goodson and sons Gabriel and Kyle Goodson.) A graveside ceremony was held privately at Greenoaks Funeral Home on April 22,2022. A Celebration of Life will be planned at the LSU Faculty Club at a later date. In lieu of flowers, donations can be made to the LSU Foundation and the Greater Baton Rouge Food Bank.

(from: Greenoaks Funeral Home & Memorial Park)

Announcements

Upcoming Member Vote Needed

We will be voting on proposals to update the language within the AAVP Constitution and Bylaw documents. See the section in this Newsletter to review the proposed changes. Voting on the proposed changes will take place during the business meeting at the Annual Meeting.

News from William C. Campbell

Forwarded from Tom Kennedy:

The 'Tapeworm Enigma' painting (by Nobel laureate parasitologist Dr. Campbell and housed by Dr. Kennedy) has appeared on the cover of the June issue of Emerging Infectious Diseases. (See the link below)

Tapeworm Enigma - Volume 28, Number 6—June 2022 - Emerging Infectious Diseases journal - CDC

Future Parasitology Meetings

Future Meetings of the AAVP

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

American Society of Parasitologists 2022

The 97th Annual Meeting of the American Society of Parasitologists will be held at The George and Cavalry Court Hotels in College Station, Texas, USA, 9-12 July 2022. ASP

Conference of Research Workers in Animal Diseases (CRWAD) 2023

The 2023 CRWAD meeting will be 20-24 January, 2023, at the Chicago Marriott, Downtown Magnificent Mile, Chicago, Illinois, USA. AAVP continues to support the best student competition in the parasitology section of the CRWAD meeting. CRWAD

Heather Kopsco of the Department of Pathobiology at the University of Illinois at Urbana-Champaign was selected as the 2021 award winner. **Congratulations, Heather!**

World Association for the Advancement of Veterinary Parasitology 2023

The 29th International Conference of the World Association for the Advancement of Veterinary Parasitology will be held at the ITC Grand Chola, Chennai, India, 20-24 August, 2023. WAAVP

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

Newsletter	Deadline
Fall 2022	October 20, 2022
Spring 2023	February 18, 2023
Summer 2023	May 24, 2023

Please contact the editor with questions regarding the Newsletter.