

NEWSLETTER

Edited by Dr. Kelly Weinersmith | Layout by Dr. Joanna Cielocha



The President's Corner By Julián Hillyer

Dear ASP Colleagues,

COVID-19 has created a challenging environment for everyone, including ASP and its community. For the health and safety of our members, we were forced to cancel the 2020 annual meeting of the American Society of Parasitologists. It was the correct decision, but it was a difficult decision. *The Journal of Parasitology* and the annual meeting are the venues where our members share their professional experiences. The Journal sets the permanent record, and the annual meeting is where the real-time exchange of ideas takes place. That is, the annual meeting is where we vividly share ongoing research and policy, where we discuss the latest in teaching and communicating parasitology, and where we foster the development of those training to be parasitologists. The annual meeting is where we see old friends, and where we seek advice on current projects, proposals under development, teaching practices, and much more. Therefore, the cancellation of the annual meeting is a blow to each one of us and to our Society as a whole.

The 2020 ASP annual meeting, which was scheduled to be held July 16-19 in Kansas City, MO, would have been an outstanding one. Our exceptional local organizing committee – Kirsten Jensen, Janine Caira, Joanna Cielocha, Kaylee Herzog, Rich Clopton and Deb Clopton – had everything in place, the ever-dependable Lee Couch was managing a myriad of logistics, and Don Duszynski was efficiently leading some of the negotiations with the venue. We had an outstanding line-up for the President's Symposium – Dennis Kyle, Lyric Bartholomay and Patrick Hanington. With the leadership of our student representative to Council, Kaylee Herzog, we had scheduled a captivating Student Symposium. There was also a strong cadre of awardees, and of course, everyone looked forward to seeing their colleagues and discussing science. My sincere thanks to everyone who worked tirelessly to organize the 2020 meeting. Nevertheless, with the COVID-19 pandemic spreading across the nation it became exceedingly clear that putting together the vibrant annual meeting our members have come to expect would be impossible. The U.S. President had declared the COVID-19 pandemic a national emergency and indicated that virus measures would last through August. The Governor of Missouri and the Mayor of Kansas City – our host city – banned gatherings of more than 50 people, a measure that the CDC supported. Many universities and government agencies had closed their physical doors and banned professional travel by their employees. On top of all that, as life scientists and parasitologists, we all know that cancelling a meeting that is scheduled to take place during the middle of this pandemic is the correct thing to do. Therefore, the decision to cancel our annual meeting was made after thoughtful discussions with Council, the Local Organizing Committee, the Secretary/Treasurer, and the Meeting Planner.

We will certainly overcome this setback. The *Journal of Parasitology* continues its strong growth. The student representative to Council, Kaylee Herzog, has organized a virtual activity called Parasite Hour where early career parasitologists will share their research. Finally, we will host exciting ASP annual meetings in the years to come, starting with our 2021 meeting in Baltimore.

Even though the 2020 annual meeting will not take place, by working together we will emerge as an even stronger society, sharing the wonders of parasite biology with each other and those all around us.

Sincerely,
 Julián F. Hillyer
 President, American Society of Parasitologists



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The Journal of Parasitology's website has a new look! Also, in 2019 the *JP* moved to a continuous publication model (so manuscripts go online as soon as formatting is complete), and dropped page charges for ASP members. We also offer competitive Open Access rates (only \$750 for members, and \$1000 for non-members).

On [the new website](#) you can browse articles and find information about submitting your paper to *JP*.

If you'd like to review for the Journal and have not already signed up to be a reviewer, please consider [signing up here](#).

Introducing Parasite Hour

A note from the Student Rep | By Kaylee Herzog
Student Representative to ASP Council 2019-2020

PARASITE HOUR

Have you been searching for a way to stay connected with our parasitological community during this time of social distancing? If so, look no further! Beginning this June, you can tune in weekly to Parasite Hour—a seminar series in which emerging parasitologists will share their research in the form of virtual oral presentations. Parasite Hour will take place Thursday afternoons from 1–2 PM US central time (2–3 PM US eastern time). The series will premiere on Thursday June 11th and will run for four weeks in total, with the fourth and final session taking place on Thursday July 2nd. Over the course of the series, ten emerging parasitologists will present their findings. Collectively, their research themes range from ecology, epidemiology, and genomics & transcriptomics to host-parasite interactions, life-cycles, and taxonomy & systematics, so there will be something to interest everyone. These parasitologists will present 12-minute talks followed by 3-minute question-and-answer periods during which they will receive feedback and answer questions from those who have tuned in to watch. The series program, weekly reminder flyers, and instructions for how to tune in will be coming to your inbox via the ASP members listserv ([members can sign up for the listserv here](#)) so you will always be in the know about what Parasite Hour has in store each week. We hope you will join us on **Thursday June 11th** for the inaugural session and continue to tune in weekly for what promises to be a spectacular and engaging series. Stay safe and well, ASP!

Report on Parasite Week 2020

By Christina Anaya

Parasite Week 2020 was a success! This year's expansion to a full week of reaching out to classrooms offered more flexibility for both teachers and parasitologists. In total, 21 parasitologists reached 22 teachers that had a total of 40 different classes. The student audience totaled more than 769 students. There were a couple of live, in-class presentations but the majority was via Skype or some other online platform. To generate teacher interest, I contacted last year's list of teachers and used my local teacher advocacy program at Northern Michigan University. If you enjoyed your experience this year, consider volunteering again next year or reach out to your local schools.

Below are excerpts from our Member Spotlights on ASP's Blog. Interviews conducted by [Abigail Kimball](#). [Check out the ASP blog for the full spotlight.](#)

Have a member you'd like us to spotlight? Send your suggestions to Kelly.Weinersmith@gmail.com

Member Spotlights



Dr. Kelly Speer

Photos by M. Brock Fenton

What has been one of your most exciting discoveries?

During my master's, I had the opportunity to do field work on bats and bat flies (Streblidae) in The Bahamas. Not much work has been done there and, to my knowledge, no work had previously been done on the parasites on these islands. When I got back from the field, I started trying to key out the flies I had collected. I was having an awful time with one group of flies and I reached out to Dr. Carl Dick, a bat fly expert. I thought I was just bad at morphologically identifying bat flies, but it turns out this group of flies was a new species! This sort of thing happens a lot in parasitology, so it isn't a terribly exciting discovery for the field, but it was exciting to me!



Speer Spotlight cont'd

Any funny stories from the field?

Oh man, yes. Mostly field work fails that are only funny after many many months of distance. One story that stands out happened a couple of years ago in central Belize. I was attempting to collect bat ticks from a looter's tunnel dug out beneath an unexcavated Mayan temple. Unfortunately, most of the ticks seemed to be located closer to where bats were roosting, above my arm's reach. Neil Duncan, the collection manager of Mammalogy at the American Museum of Natural History, kindly offered to put me on his shoulders so that I could reach more ticks. So there I am, sitting on Neil's shoulders, picking ticks off this tunnel wall, while vampire bats are flying into me, and while Neil is standing in vampire bat poop. It's not where I thought that trip would end up and I'm absolutely positive it isn't where Neil thought it would end up either. Even better, this moment was captured in perpetuity by Dr. Brock Fenton, who always seems to have a camera ready in the field.



Dr. Anne Vardo-Zalik

What is the best way to promote positive laboratory culture? Does your lab have any fun traditions?

We always go on outings together after each meeting. I see attending scientific meetings with my students as a bonding experience where we not only learn how to present our work together and interact with other amazing scientists, but also where we get to learn more about each other and focus on having a good time together. Last summer, we went axe-throwing after a conference in State College, PA. We also have lab-dinners and potlucks throughout the year when possible. To me, these students are a big part of my life- they are my second family and I enjoy spending time with them outside of the research lab.



What is your philosophy when it comes to guiding undergraduates through their research experience?

I purposefully chose to teach at an undergraduate only campus because I think undergraduates need the push to get into research early on in their careers. This is the best way to keep students engaged in scientific research and to see the viability of that as a career choice. I love working with undergraduates because I get to see that first spark: The first time an experiment works for them; the first time that they get a question from a leading scientist in the field at a meeting; the first time an experiment fails (which, let's face it, in science everyone fails, a lot!). And I get to be there to help them push through. Students need to be engaged in what they are learning, which means they need engaged teachers. They need researchers who make them laugh, who show them the good, the bad, the difficult, and still show up everyday to tackle the job at hand. What I enjoy most about the experience is that when a student signs up to work with me, we are working together, every step of the way. We learn from each other- we are each actively engaged in the experimental process and we each grow from the experience. I make sure that the students working with me know that I value their contributions and hard work. We are a team.

Field Notes: Bayou Magic

Written and Images by Vasyly Tkach
Reminiscences added by Stephen Greiman
Edited by Kelly Weinersmith

[First published on ASP's Blog on 1 May 2020](#)

If you're a professor of parasitology, then no doubt you've lost great students to medical, veterinary, or dental schools. Let me tell you a story about the one that didn't get away. Stephen Greiman started working in my lab in 2008. He was sure he wanted to be a veterinarian, and parasitology research was fitting nicely into his career path. After doing a terrific job in my lab during the school year and over the summer as an REU, Stephen asked me for a letter of recommendation for vet school. While I wished Stephen would stick with parasitology, obviously said I would gladly write his letter.

Stephen: The University of North Dakota (UND) is the Nation's top aviation school, and I started my collegiate career at the UND with the goal of becoming an airline pilot. I received my private pilot's license that summer, but aviation wasn't what I thought it would be. I contemplated leaving UND, however I had already made friends and the thought of taking time off to switch schools didn't seem practical. So I stuck it out at UND and switched to a biology degree with a pre-veterinarian focus. Like most young undergraduates, I didn't know much about career options with a biology degree (beyond medical fields), and actually knew nothing about scientific research. I knew I liked working with animals, especially a diversity of animals. So being a Vet seemed to match up. Man, was I fortunate to stay at UND, as while taking Vasyly's Animal Biology course, he offered up a position to do research in his lab, so I figured, "why not?," let's see what parasitological research is, and since then, I have never looked back.

As a reward for great work as an REU student over the summer, I invited Stephen to join me for a short collecting trip on the Gulf coast. Although he didn't have the sufficient background in parasitology at the time to realize it, I was bringing Stephen to parasitologists' hallowed ground. Our base camp was the famous 137A room in Dr. Overstreet's laboratory at the Gulf Coast Research Laboratory! That lab saw a lot of great parasitologists working and great parasitology done within its walls over the decades.

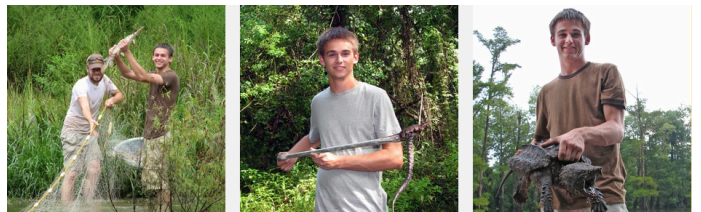
The fun started as soon as we got off the plane. We immediately set traps in a couple of water bodies along the Pascagoula River. When we went to check the traps early in the morning the next day, Stephen caught his first cottonmouth, and the traps had turtles and (surprise!) a decent size alligator. For the next few days we collected by hand, by trapping, cast netting, gill netting, and by firearm in oxbows, bayous, the Grand Bay estuary and a salt marsh.

Stephen: This trip to Mississippi was a real eye opener for what a parasitologist could do! Prior to this trip I worked mostly in Vasyly's lab staining and mounting worms, extracting, amplifying and sequencing parasite DNA, with a little host necropsy mixed in. When we arrived on the Gulf Coast we quickly jumped into collecting. What an amazing experience. I had already collected using a firearm, but had never used gill nets or turtle traps, and certainly never got to hold a prehistoric looking gar or alligator snapping turtle.



Stephen had an opportunity to examine a variety of animals for parasites, from amazing gar fishes, snakes and turtles to an alligator and birds. We took these animals back to Dr. Overstreet's lab, where Stephen saw lots of tapeworms and digeneans (including schistosomatids and spirorchiids). I had never had a chance to do anything like that as an undergraduate (or a graduate) student so I hoped Stephen enjoyed it. There was a lot of fun in the form of waking up very early, getting into mud or in the fresh/brackish/salt water, working all day, and going to sleep very late.

Stephen: The diversity of helminths that we pulled from these hosts was also amazing. I already understood some of the extreme diversity of helminths through Vasyly's own collection, but to see them all alive from so many hosts, made me realize the amazing opportunities for biodiversity discovery, understanding parasite evolution and distributions, and host associations.



One episode in particular remains in my memory. On our way from collecting in a particularly productive oxbow, Stephen Greiman and Eric Pulis were working together to navigate our motorboat through murky water. Despite their best efforts, our boat hit a submerged stump. Inertia worked against Stephen, who was flung from the nose of the boat and hit the water with a splash. Stephen disappeared below the murky water, and just as I was starting to get worried, he re-emerged and safely got back into the boat. I didn't catch this YouTube-worthy event on video, but I did get a photo of Stephen just after his unintended refresher in the oxbow.

Bayou Magic cont'd

Stephen: Going overboard was certainly an experience, one that I won't ever forget. Eric was moving pretty quick through the tight channels of the bayou, and I was trying my best to spot submerged logs. However, given the water was not very transparent, and I obviously missed seeing a log, we hit that log and the boat just stopped. I flipped right over the front. Fortunately, I was holding tight to the rope attached to the front of the boat and Eric stopped the propeller as quickly as possible. I am certain both Eric and Vasyl were more worried than I was. For one, it was extremely hot out, so the quick splash was refreshing. And two, holding the rope close enough to the boat prevented me from really getting messed up by the propeller (although my heart rate probably increased some!). In the end we all had a good laugh, given I was okay, and it gave us a great story to tell.

Although Stephen insisted he was OK, to this day I suspect his head hit a submerged stump, because on our flight back to Grand Forks he asked me to scrap that letter of recommendation to the veterinary school and write a letter to graduate school. The young man decided to trade the career as a veterinary doctor for becoming a researcher and a university faculty. While I usually ask students to think at least twice about making such serious choices, I did not do it that time. I was very glad to hear Stephen's decision.



Stephen: Looking back, this trip was the final tipping point for my choice of pursuing a PhD with Vasyl over applying for vet school. The combination of this trip and experiences in Vasyl's lab allowed me to grasp the opportunities available to a parasitologist. I discovered that they can work with a wide range of hosts, from invertebrates, to all major classes of vertebrates. They can delve into the biodiversity and discover new species, they can unravel the complex evolutionary relationships amongst parasites and amongst hosts and parasites, they can examine the impacts on host

health and environmental health, etc. Really, after experiences like these, who would not want to be a parasitologist?

Stephen was accepted in our program as the top ranked candidate (outcompeting applicants who already had M.S. degrees). He went on to produce a terrific dissertation which he defended less than 4 years after receiving his bachelor's diploma, and just after turning 26! On the way he published 11 papers while still in graduate school, worked in expeditions in different parts of the world (from Alaska and Oregon to Guatemala, Philippines, Vietnam and Laos), received the UND Biology Outstanding Graduate Student award three years in a row, received the NSF postdoctoral fellowship, and won the ASP Ashton Cuckler New Investigator award in the first year after graduation. Stephen is now an assistant professor at the Georgia Southern University, and does a lot of great research. The trip was definitely worth it, and keeps reminding me that when we provide opportunities to students, the results may exceed all expectations.

Stephen: I have been extremely fortunate to have wonderful mentors that have afforded me unrivalled experiences. I have now been able to travel the world, work closely with leading experts, collaborate on large biodiversity expeditions, sequence genomes, and help build biodiversity collections through natural history museums like the Museum of Southwestern Biology. Now that I am a faculty member at Georgia Southern, I get the opportunity to excite undergraduate and graduate students about the world of parasites, just as Vasyl did for me.



Have a story you want to share? We'd love to hear it!

Email Kelly.Weinersmith@gmail.com with your Field Note ideas.

Regional Society News

Annual Midwestern Conference of Parasitologists (AMCOP)

The AMCOP annual meeting was canceled due to COVID. The officers elected in 2019 will remain officers until the end of the 2021 meeting. The 2021 meeting will be held at St. Norbert College (DePere, WI), the 2022 meeting at Southern Illinois University (Carbondale, IL), and the 2023 meeting at the University of Wisconsin Stevens Point (Stevens Point, WI).

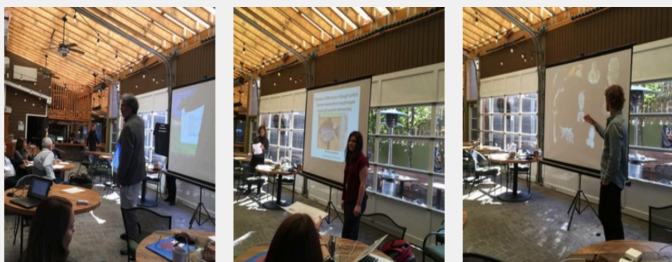
Helminthological Society of Washington (HelmSoc)

The Helminthological Society of Washington cancelled their Spring meeting due to COVID. The following is a report from their annual Anniversary meeting (the report is modified from a blog post released on ASP's website on Nov 20, 2019).

By Kelly Weinersmith

The Helminthological Society of Washington met for our annual Anniversary Meeting (our 722nd meeting overall!) at the Old Stein Inn in Edgewater Maryland on Saturday, November 2, 2019.

We started the meeting off with five minute Lightning Talks. Students made a fantastic showing at the meeting! Brenna Alewynse told us about differences in the abundance of monogeneans between bluegill sunfish morphotypes. Hunter Woodard introduced us to his work in California looking at the effects of wildfire on lizard malaria diversity and prevalence, and Hayley Hurt told us about her in progress experiment looking for epigenetic impacts of infection in *Trochilium confusum* beetles infected by *Hymenolepis diminuta*. Graduate student Jimmy Bernot shared his work on copepod phylogenetics, which included amazing photos of the morphological diversity in parasitic copepods.



Faculty also presented talks, including two talks by new HelmSoc members! New members Bronwyn Williams told us about her work on crayfish symbionts, and Peter Thompson introduced us to his work on genomes of cattle parasites. Lynn Carta shared her work on *Litylenchus crenatae*, a nematode causing beech leaf disease, and the routes through which this nematode may have been introduced to the United States. We were also thrilled to have Florian Reyda (who is on the editorial board of HelmSoc's journal *Comparative Parasitology*) join us for this meeting. He shared the disturbing news that his field surveys are not turning up acanthocephalans at their type localities – suggesting the extirpation of acanthocephalans at these locations.

At our Business Meeting Treasurer Ashleigh Smythe reported that the Society is doing well financially, and we should all keep [clicking on Comparative Parasitology articles in BioOne](#), as this is an important source of revenue for HelmSoc. *Comparative Parasitology's* editor (Autumn Smith-Herron) reported that the journal has moved to a continuous publication model, and that page charges can now be paid through Wild Apricot. Also, Autumn is looking for new reviewers for *Comparative Parasitology*, so if you're willing to review [please get in touch with her](#). Immediate Past President Sherman Hendrix then led us in a moment of silence in memory of Danny Pence, a HelmSoc member and past editorial board member for HelmSoc's journals through the years.

At the Business Meeting we also learned about a new student travel award mechanism for HelmSoc and American Society of Parasitologist meetings. More on this soon! And if anyone wants to volunteer to work on the student travel grant committee, [please contact anyone on HelmSoc's Executive Committee](#). President John Hawdon also reported that HelmSoc passed a Discrimination Policy. HelmSoc Secretary Anna Phillips reported that she is working on organizing a Parasite Day event on March 4, 2020 at the National Museum of Natural History. If you'd like to participate in a parasite-themed take-over of the Ocean Hall, or would like to participate in virtual classroom sessions on this day, please contact [Anna Phillips](#) or [Kelly Weinersmith](#).

We then presented HelmSoc's Anniversary Award to [Dr. Janine Caira](#)! Janine presented on her three and a half decades of tapeworm work, emphasizing the importance of serendipity on her career path. For example, she shared with us the story of a trip that was supposed to be about learning how to milk rattlesnakes, but because of some miscommunication about dates turned into a trip to Mexico where she and her friend encountered a fisherman selling sharks. They bought one to eat, and one to dissect, and Janine discovered a new species of tapeworm in the shark they dissected! She published this new species description in HelmSoc's journal (which was *Proceedings of the Helminthological Society of Washington* at that time), and was on her way to becoming a world expert in tapeworm parasites of sharks. She and her students have now identified over 180 new species of tapeworms, and over 79 new elasmobranch species!



Regional Societies cont'd

The night wrapped up with some amazing German food, great conversation, and German music played by a live band. Thanks so much to Dr. Anne Vardo-Zalik for organizing the meeting!



Northern California Parasitologists (NCP)

NCP's Mike Moser reported that NCP held their annual meeting on Feb 8, 2020 at California State University, Hayward. The meeting was hosted by Dr. Pascale Guiton. Dr. John Boothroyd (Stanford University) presented "How and why (?!?) *Toxoplasma* can invade and co-opt such a wide variety of hosts", and Dr. Nazy Pakpour (California State University East Bay) presented "Type 2 Diabetes and Malaria: you are what you eat".

Five students (Emily Quach, Daniel Ho, Ariel Moline, Aoife Galvin, and Jenna Aquino) gave poster presentations. There was also a student competition for oral presentations! First place and the Balamuth-Horen Award went to Emma Zhang (University of California Davis) for her talk "Association of zoonotic protozoan parasites with microplastics in seawater: Implications for human and wildlife health". Second place and the Walter Carr Award went to Sharon Brummit (University of California Davis), who presented "Sero-survey for hard tick-transmitted spirochetes in California blood donor". Finally, Proyasha Roy (California State University East Bay) was awarded third place for her talk "Identification of a novel matrix protein in *Toxoplasma gondii* cysts". Congratulations to the students who presented at NCP's annual meeting!



Southwestern Association of Parasitologists (SWAP) & Southeastern Society of Parasitologists (SSP) annual meetings were cancelled due to COVID19.

Southern California Society of Parasitologists (SCP)

SCP's Spring meeting is canceled due to COVID. Ralph Appy submitted the following report on their Fall meeting (the report first appeared on ASP's blog on Dec 13, 2019):

By Ralph Appy

The fall meeting of SCSP was hosted by the lab of Dr. Ryan Hechinger, Scripps Institution of Oceanography, University of California, San Diego on November 22, 2019. The meeting included a presentation on parasite research being carried out in the Hechinger lab, and a tour of the experimental aquarium arrays used to raise, infect and video killifish with Digenea and experimental mudflat arrays under artificial tide used to study California horn snails infected with Digenea. The meeting concluded with lab demonstrations of body snatcher trematodes in horn snails, soldier worms, *Euhaplorchis* metacercariae on killifish brains, a newly discovered mermitid nematode of a local crustacean, and kelp fly trypanosomes. Attendees included students, scientists and professors from the following institutions: University of California, Santa Barbara, University of Southern California at Los Angeles, University of Southern California, Saddleback Community College, Cabrillo Marine Aquarium and Orange County Sanitation District. A special thanks to Dr. Hechinger and his students for hosting the meeting. Find a description of the research being carried out in the [Hechinger lab on his website](#).



ASP Member Benefits & Reminders

By Mike Moser

Associate Membership: We are committed to welcoming our colleagues in developing countries (as defined by the International Monetary Fund) to become members of ASP, and take advantage of the benefits of membership and collaboration with our members. Our Home Page contains numerous links and resources (e.g. Newsletter, Find an Expert, Facebook, Twitter) that are easily accessible and informative. Associate Membership also includes the online edition of *Journal of Parasitology*. This membership category is currently significantly less than the regular active membership dues (\$50 verses \$150). Associate Members are in Good Standing and enjoy all rights, privileges, and responsibilities of membership.

Sponsored Memberships: Sponsored Memberships are part of our effort to further increase our diversity and become even more inclusive by recruiting colleagues, domestic and foreign, who for various reasons can not join ASP. Some can not afford even the modest Associate Membership or online student dues. Others have political issues in foreign countries. We have instituted the Sponsor Membership category to help these colleagues become members. Current members can also gift a membership to one of their students or a colleague. A member can be a sponsor for any of the membership categories shown on the ASP Membership link on the ASP Home page. The most common category for foreign sponsorship is the Associate Membership. All sponsorships are tax deductible. These memberships have proven to be mutually beneficial. The person being sponsored has the full benefits of ASP membership. The sponsor has a new colleague who may have interesting and valuable experiences and expertise. These connections can lead to future collaborations. In addition, the sponsor has helped make ASP a richer resource for parasitology, for which we and the new colleague will thank you.

If you desire to establish a Sponsored Membership, you may do so by contacting ASP's membership administration office by phone (785-865-9405) or email (asp@allenpress.com).

Find an Expert: This link on the [ASP Home Page](#) is a valuable resource for members, especially for students, to have specialists answer their questions. Currently there are almost 20 areas in parasitology that have "experts" that invite questions from members. A member can become an "expert" by simply identifying their area of expertise. This is a member-only link to avoid the "experts" being swamped by spam or bogus questions.

Call for Teaching Materials

From the ASP Education Committee

We hope you are staying well. Many of you may be faced with designing online lectures and labs for your parasitology classes due to the shut down. It would be great if you would share your suggestions and online material with the other members. The timing for this material is of the utmost importance. We do not want to see the quality of the current parasitology classes compromised or classes cancelled due to the COVID-19 restrictions. Please send your material to Nicole Chodkowski (nc526@cornell.edu). Please use a format for your material that is easy for the members to open. Formats such as PDFs or Microsoft Word or documents shared through platforms such as Google Drive have been suggested. Also, please include your email address with the educational material. The potential user may want to contact you.

John Shea, Creighton University (shea.48@jesuits.net) has generously agreed to share the following material. Note that the GIF files are only able to be viewed as still images. The "student lab folder" may start to include new images over the next week, but please use the "GUK (Kodachrome slides)" folder to find various images and videos of parasite taxa. [This link provides access to materials.](#)

[Nicole Chodkowski](#)
ASP Education Committee
Cornell University
Ithaca, NY 14850

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