Foundation Kicks Off Seminar Series in a Big Way

On 12 May, the Foundation, answering the call of the cancellation of meetings from almost every organization, heeded the call of its members for CEUs by holding its first ever VIRTUAL Day-Seminar, a full day of lectures on Equine Diseases. The Foundation has held “Day-Seminars” (a unique term but one well known to many Foundation members) since the 1990’s in the NE Division, and recently inaugurated a series of free Day-Seminars in Europe and South America. A Day-Seminar is just what it sounds like – a full day of lectures, and in the US, a full 8 hours of accredited CE. In order to accommodate the time zones of as many attendees as possible, this Day-Seminar, and future Day-Seminars in the series, begin at 7AM Pacific Standard Time in the US.

The day began with a 2-hour lecture on equine neuropathology by Professor Fabio del Piero of Louisiana State University. Viral discussion covered rabies, West Nile Virus, the alphaviruses, Japanese encephalitis, Borna virus, equine herpesvirus-1, influenza and coronavirus, and others. A discussion of bacterial infections followed, including Streptococcus equi, Rhodococcus sp., and Salmonella. The entities of brain abscesses and embolic bacterial encephalitis were discussed along the way, as well as the emerging disease of neuroborreliosis. Important protozoal, fungal, and nematode infections of the CNS were not left out. The lecturer closed his review of diseases of the cranial vault with congenital diseases and a discussion of diseases without well-defined etiologies. A beautiful review of compressive lesions in the peripheral nerves followed, and the lecture concluded with diseases of peripheral nerves.

continued on Page 2
Following the first well-deserved break, Dr. Sue Stover, Distinguished Professor of Surgery at UC Davis, and a foremost authority on equine injuries, gave an excellent review of skeletal diseases in racehorses. The talk covered the following (in order) - the nature of injuries in athletes, responses to injury, adaptation via modeling and remodeling, stress fractures, subchondral stress remodeling, common skeletal sites for injury, and the necropsy examination. In easy to understand terms and with great diagrams, she explained how these injuries occur as a result of overuse, and demonstrate the very typical and reproducible lesions that they create as a result repetitive loading and inadequate time for repair. The lecture had some excellent suggestions for pathologists not only in terms of identifying and documenting these common injuries, but also for preparing useful reports for clinical veterinarians.

After lunch, Dr. Paco Uzal gave an outstanding lecture on diseases of the alimentary tract in the horse. The lecture started with a review of clostridial diseases (which may account for up to 50% of infectious disease of the horse gut), and covered other bacterial agents such as Salmonella, Rhodococcus, and less common bacterial agents. Next up were parasites, first nematodes (strongyles in a million-dollar horse - crazy!) and protozoans. Then viral enteric diseases were covered, such as rotavirus and coronavirus. Non-pathogenic diseases included developmental anomalies, drug toxicity, and toxic plants, with displacement and neoplasms of the equine gut concluding the lecture, which, like all of the others, was followed by as many questions from the audience as time would allow.

Concluding the seminar was Dr. Leandro Teixeira of the Comparative Ocular Pathology Laboratory of Wisconsin who gave an outstanding wide-ranging lecture on diseases of the eye in the horse – it would appear that it is NOT all recurrent uveitis! This was a unique lecture to all concerned, who could not recall a full lecture on equine ophthalmic pathology, much less such a beautifully illustrated one. Dr. Teixeira gave detailed gross and histologic descriptions on all of the diseases of the equine globe, beginning with developmental diseases. Diseases of the cornea (the most common in this species due to its large eyes and skittish nature) followed, with mycotic keratitis getting special attention. As expected, recurrent uveitis got its due, but a number of other less common ocular diseases, some first diagnosed by the experts at COPLOW, followed.

Additional virtual Day-Seminars are already planned for May 26 (Dermatopathology), June 9 (Pathology of Zoo Animals and Aquatic Animals), and June 23 (Clinical Pathology Review). We hope to see you all there!
Participant Review of Equine Disease Virtual Day Seminar,
by Heather Herd, BVMS, DACVP

Despite the many miles between attendees and presenters, the material was consistently engaging and discussion that followed each talk, stimulating. I was lucky enough to enjoy all the gross photos and photomicrographs on our 60-inch widescreen living room television, providing a very cinematic experience for me and my family. Other attendees posted photos of them and their pets enjoying the lectures to the C. L. Davis – Thompson Foundation Facebook page, helping us all feel a bit more connected in this time of social distancing. If you missed it, jump on over to the C. L. Davis and S. W. Thompson Foundation YouTube channel and enjoy each of these lectures for free.
June Virtual Seminars of the Davis-Thompson Foundation and the Latin Comparative Pathology Group

05 FRIDAY
Cognitive errors in veterinary diagnostic pathology: why we make mistakes and how to mitigate the risk
SPONSORED BY DTF
Dr. Paul Stromberg
The Ohio State University
Ohio

12 FRIDAY
Tumors of the peripheral nervous system
SPONSORED BY DTF
Dr. Kevin Woolard
UC Davis
California

19 FRIDAY
Pathology of camelids
SPONSORED BY DTF
Dr. Christiane Loehr
Oregon State University
Oregon

26 FRIDAY
The pathology of selected diseases caused by toxic plants
SPONSORED BY LCPG
Dr. Claudio Barros
UFMS
Brasil

The seminars are free and offered via Zoom and hosted by Davis Thompson Foundation CEO, Dr. Bruce Williams or President Dr. Francisco Uzal. Registration is free but required (watch for your invitation to register in the coming weeks).

All seminars are at 9 am (PST), 10 am (MST), 11 am (CST), 12 pm (EST)
Davis-Thompson Foundation
Virtual Day-Seminars
Diseases of aquatic and zoo animals
Tuesday, 9 June

Registration fee: $50

Dr. Elise LaDouceur
Joint Pathology Center and
Northwest ZooPath
7-9 am**

DISEASES OF INVERTEBRATES

Dr. Michael Garner
Northwest ZooPath
12:30-2:30 pm

DISEASES OF ZOO BIRDS

Dr. Salvatore Frasca, Jr.
University of Florida
9:30-11:30 am

DISEASES OF FISH

Dr. Judy St. Leger
Cornell University
3-5 pm

DISEASES OF MARINE MAMMALS

* This seminar is preapproved by the ACVP Maintenance of Certification (MOC) Committee for 1 credit
* This program has been submitted (but is not yet approved) for 8 hours of continuing education credit in jurisdictions which recognize RACE approval.
** all times in PST

For more information and registration:
https://us02web.zoom.us/webinar/register/WN_RVBQirwVR1gGqOZnUAAr7w
Participant Review of Prognostic Evaluation of Canine Cutaneous Mast Cell Tumors

by Mary Duncan, DVM, DACVP, St. Louis Zoological Park

Dr. Matti Kiupel (Veterinary Diagnostic Laboratory, Michigan State University) gave a virtual presentation entitled Prognostic Evaluation of Canine Cutaneous Mast Cell Tumors for the Foundation on April 24, 2020. He began with an outline of the expected case presentation for the entity that is responsible for 7-21% of canine cutaneous tumors. Often a cytologic sample is submitted initially and the improved granule staining with Wright’s stain over Diff Quik was clearly demonstrated. Prognostic study problems were discussed: differentiation of metastatic over de novo tumor development, presence of nodal spread, length of survival following surgery relative to owner-client decision to euthanize, and, the elephant in the room, tumor grading.

Dr. Kiupel continued with a review of the different grading systems. He showed how results of a blind trial of 28 pathologists asked to review the same collection of cases using the Patnaik system had a lot of crossover between grades 1 and 2, while nuclear and cellular morphology differences, made grades 2 and 3 easier to distinguish. A single grading system was not optimal for prognostication, but by addition of further criteria, tiering the grading system, results were markedly improved. Additional criteria were numbers of mitotic figures, multinucleated cells, bizarre nuclei and karyomegaly. Examination of sample margins was further discussed, including “orange peel sections”, and methodology for local lymph node assessment. Mitotic index versus mitotic count was reviewed and variable mitotic activity with location in a neoplasm. It was a stimulating hour, whether studying for Boards or just brushing out the mental cobwebs, and certainly a good distraction from COVID-19.
2020 U.S. Descriptive Veterinary Pathology Course

June 1-5 VIRTUAL COURSE

Dr. Jey Koehler
Auburn University

Dr. Patricia Pesavento
University of California Davis

Dr. Linden Craig
University of Tennessee

Lectures, active learning exercises, & mock exams on:
• Gross Pathology
• Microscopic Pathology
• Gross-Micro Correlations
• Ultrastructural Pathology
• Immunohistochemistry

20 RACE CE credits!

Registration is now closed, as all seats are filled
Davis-Thompson Foundation
Virtual Day-Seminars
Clinical pathology review
Tuesday, 23 June

Registration fee: $50

Dr. Darren Wood
University of Guelph
7-9 am*
Hemostasis: basics and testing

Dr. Kirstin Barnhart
Envigo Global Services
9:30-11:30 am
Hemoparasites

Dr. Melinda Camus
University of Georgia
12:30-2:30 pm
CBC Basics: The value of blood smear evaluation.

Dr. Julie Webb
Cornell University
3-5 pm
Diagnostic cases (hemostasis and CBC)

-This program has been submitted (but is not yet approved) for 8 hours of continuing education credit in jurisdictions which recognize RACE approval.
-This seminar is preapproved by the ACVP Maintenance of Certification (MOC) Committee for 1 credit
*: all times in PST

Click to register:
https://us02web.zoom.us/webinar/register/WN_4Is7IQaORwuhpC8Ev6t-u9g
On May 1, 2020, I “attended” the new “Free Friday Virtual Seminar”, sponsored by the Latin Comparative Pathology Group. The topic that day was "Freshwater Fish Pathology". The presenter was Dr. Paola Andrea Barato Gómez DVM, Esp, PhD, Executive Scientific Director, CORPAVET, from Colombia. The figures and tables were well cited, in accordance to the standards set by the Foundation. She was very secure and knowledgeable on the topic, and spoke in a clear manner with adequate pauses and cadences, with minor mannerisms. The presentation itself was very well organized, and easy to follow.

She focused on three emerging diseases of tilapia, trout, and ornamental fish. She gave a basic overview of each disease, with appropriate gross and microscopic lesions. Time management, she finished on time with plenty of extra time available to answer questions from panelists, and she gave good quick answers to the questions presented, demonstrating again her knowledge and expertise.
POLA 2020
3-7 August 2020
VIRTUAL SEMINAR
THROUGH ZOOM

Pathology of the Mouse
Pathology of the Rat
Pathology of Non-Human Primates
Pathology of Mini-Pigs
Pathology of the Rabbit
Pathology of the Ferret
Pathology of Laboratory Fish
Pathology of Guinea Pigs, Hamsters and Gerbils
Pathology of the Ferret Mock Exam

The seminar is pre-approved by the ACVP MOC committee for 2 credits per half day attended. This course has been submitted (but not approved) for 32 hours of continuing education in jurisdictions which recognize RACE approval.

TUITION:
$300
Foundation members
$400
Non-members

Register at:
https://davisthompsonfoundation.regfox.com/2020pola
30th
Southcentral division meeting
Oct. 2-3, 2020, Galveston, TX

Classical Skin Diseases and Hair Follicle Tumors

Dr. Dominique Wiener
Texas A&M University

We want to hear about your cases!
Attendees are invited to present a 10-15 minute report to the group of an interesting case!

For more information:
https://davisthompsonfoundation.regfox.org/2020galveston
20th CL Davis/SW Thompson Diagnostic Pathology Symposium:
Diagnostic Pathology of Wildlife Diseases

October 16, 2020, Friday,
8am–5:45pm
Gaylord Opryland Resort,
Nashville, TN

Dr. Scott Fitzgerald
Michigan State University
Pathology of Wild Mammals
Pathology of Wild Birds
Pathology of Reptiles
Pathology of Amphibians

Dr. Robert Ossiboff
University of Florida

In conjunction with the 63rd Annual AAVLD annual meeting

For more information and registration:
https://davisthompsonfoundation.regfox.com/2020aavld
SAVE THE DATE

2020 ACVP Pre-Conference Workshop

ORAL PATHOLOGY OF COMPANION ANIMALS

The COMMON
The CLASSIC
And the CONFUSING

Dr. Cindy Bell
Dr. Brian Murphy

Date: Saturday, October 31 2020
Time: 8:00am - 5:00pm
Venue: Chicago Marriott Downtown Magnificent Mile, Chicago, Illinois

Registration details forthcoming through ACVP website
Review “Stories from Zoos and Aquaria” May 08, 2020

In the era of COVID-19, the CL Davis Thompson Foundation has managed to continue delivering high-quality, high-value educational seminars for veterinary pathologists and trainees around the world. The latest creation of the Foundation is the Free Friday Seminar Series. This series offers 1-2-hour, virtual seminars for up to 500 participants. Seminars are led by pathology subject matter experts and are remarkably offered at no cost to participants. “Stories from Zoos and Aquaria,” a recent installment of this series, was delivered by Dr. Carlos Rodriguez. Dr. Rodriguez is a powerhouse in the field of zoo and wildlife pathology and has worked for over fifteen years at two of the most respected zoo/wildlife pathology programs in the world: Wildlife Conservation Society (Bronx, NY) and Walt Disney World (Orlando, FL), where he currently manages the pathology team. Dr. Rodriguez walked participants through the life of a zoo/wildlife pathologist, and showed us the types of fascinating cases discussed at Disney’s in-house, biweekly pathology rounds.

Dr. Rodriguez provides pathology support for not only the zoo collection, but also wildlife that live on the grounds, animals in quarantine, confiscated animals, and many national and international research and conservation programs. In “Stories from Zoos and Aquaria,” participants witnessed the incredible diversity of Dr. Rodriguez’s caseload, including EHV-1 encephalitis in a giraffe, cryptosporidial enteritis in a white-throated monitor, microsporidiosis in the digestive gland of a snail, and many more! Participants also learned about avian respiratory physiology, the biomechanics of the coxofemoral joint in ruminants, and the inherent risks for interspecies transmission in the popular mixed species exhibits, all of which are relevant to diagnosing (and controlling) disease in zoo and wildlife species. The seminar closed with a question and answer session whereby Dr. Rodriguez offered practical advice on diagnosing disease, how to obtain a job in zoo/wildlife pathology, and more. I am sure the hundreds of participants who joined Dr. Rodriguez’s seminar will agree that this was an excellent, informative and entertaining seminar that offered a firsthand account of the work of a seasoned zoo/wildlife pathologist.

*Elise LaDouceur, DVM, DACVP*
*Chief, Extramural Projects and Research*
*Joint Pathology Center*
Become a member of the Latin Comparative Pathology Group

LCPG:
- Provides Diagnostic Exercises
- Offers travel awards
- Coordinates externships in US labs for Latin Americans
- Organizes and lectures in Latin American seminars and courses

Learn more at: www.cldavis.org/lcpg_english

LCPG is the proud Latin American Division of the Davis/Thompson Foundation!

Contact Francisco.carvallo@gmail.com to join LCPG!

Membership fees:
- $50 - Professionals in US, Canada and Europe
- $30 - Professionals in Latin America
- $25 - Students in US, Canada and Europe
- $15 - Students in Latin America
Contributors: Contributors: Ji-Hang Yin, DVM, MS; Tatiane Terumi Negrão Watanabe, DVM, MS, PhD; Nobuko Wakamatsu, DVM, PhD, DACVP, DACPV. Department of Pathobiological Sciences, Louisiana State University, School of Veterinary Medicine, and Louisiana Animal Disease Diagnostic Laboratory, Baton Rouge, LA 70803

Clinical History: A 7-month-old, intact female Buff Silkie chicken was found dead with a clinical history of reluctance to move. The other chickens from the backyard flock were clinically normal.

Necropsy Findings: Major gross findings included a raised and extensively ulcerated cutaneous mass that measured 1.7 x 2.5 x 2.2 cm and was located dorsal to the left femoroacetabular joint (Figure 1A). The mass, which was soft and pale pink on cut surface, was covered with a dry reddish brown crust delimited by an up to 0.3 cm thick, firm, white rim. Within the caudal coelomic cavity, an approximately 5.0 x 3.0 x 3.5 cm, slightly firm, pale pink to tan mass was adhered to and partially infiltrated the right middle and caudal lobes and the left caudal lobe of the kidneys. It was also tightly adhered to the coelomic wall over the sacrum (Figure 1B). The lungs had multifocal pale pink to tan areas. Enlargement of sciatic nerves was not apparent. No other significant lesions were noted.

Follow-up Questions: Morphologic diagnosis, Etiology, Disease

Answers and more info here!

*The Diagnostic Exercises are an initiative of the Latin Comparative Pathology Group (LCPG), the Latin American subdivision of The Davis-Thompson Foundation. These exercises are contributed by members and non-members from any country of residence. Consider submitting an exercise!
Retiring?

Have slides left over from your recent slide seminar? Just looking to free up some storage space? The Foundation is looking for additional glass slides, kodachromes and other similar materials for its Correspondence Division and Study Centers. All materials should be well-identified with as much accompany history and discussion as possible, as these materials are expressly used for teaching. Moreover, as the Foundation is a publicly donative charity, all donated materials are tax-deductible. For more information, please contact Dr. Bruce Williams at bruce.h.williams.dvm@gmail.com.

Davis-Thompson Foundation Pathology Externship

Since 1980, the Davis-Thompson Foundation lab sites have hosted more than 125 veterinary students at 8 participating diagnostic laboratories. These students usually have a strong interest in pathology itself or zoo or poultry medicine that require a strong pathology background. The Foundation is always interested in having veterinary students apply for an externship and we would like to add more externship sites that do not usually have veterinary students, to help increase their interest and knowledge of pathology with some off-campus experience. For more information, contact Dr. Jim Britt, jobritt@sbcglobal.net; 501-912-1449.

Did you know?

The “An Atlas of Metazoan Parasites in Animal Tissues” by Gardiner and Poynton is available on line? …and in Spanish !!!

Check it out here: http://cldavis.org/PDFs/atlas_esp.pdf
# Calendar for Upcoming Events 2020

## North America

<table>
<thead>
<tr>
<th>Country</th>
<th>Course</th>
<th>Date</th>
<th>Venue</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>Descriptive Veterinary Pathology Course</td>
<td>June 1-5</td>
<td>VIRTUAL</td>
<td>Jey Koehler <a href="mailto:jaw0007@auburn.edu">jaw0007@auburn.edu</a></td>
</tr>
<tr>
<td></td>
<td>POLA 2020</td>
<td>August 3-7</td>
<td>VIRTUAL</td>
<td>Robert Kim <a href="mailto:robkkim@gmail.com">robkkim@gmail.com</a></td>
</tr>
<tr>
<td></td>
<td>30 Annual Southcentral Division Meeting</td>
<td>October 2-3</td>
<td>Galveston, TX</td>
<td>Jim Britt, Ed Dick <a href="mailto:jobritt@sbcglobal.net">jobritt@sbcglobal.net</a></td>
</tr>
<tr>
<td></td>
<td>20th Annual Diagnostic Pathology Seminar-AAVLD</td>
<td>October 16</td>
<td>Nashville, TN</td>
<td>Matti Kiupel <a href="mailto:kiupel@msu.edu">kiupel@msu.edu</a></td>
</tr>
<tr>
<td></td>
<td>ACVP Pre-Conference workshop</td>
<td>October 31</td>
<td>Chicago, IL</td>
<td>Jennifer Chapman <a href="mailto:chapmanjl@verizon.net">chapmanjl@verizon.net</a></td>
</tr>
<tr>
<td></td>
<td>Free Friday Seminars</td>
<td>Weekly: through December</td>
<td>VIRTUAL</td>
<td>Bruce Williams <a href="mailto:bruce.h.williams.dvm@gmail.com">bruce.h.williams.dvm@gmail.com</a> Paco Uzal <a href="mailto:fauzal@ucdavis.edu">fauzal@ucdavis.edu</a></td>
</tr>
<tr>
<td></td>
<td>Tuesday Day Seminars</td>
<td>Every second or fourth week: through December</td>
<td>VIRTUAL</td>
<td>Bruce Williams <a href="mailto:bruce.h.williams.dvm@gmail.com">bruce.h.williams.dvm@gmail.com</a> Paco Uzal <a href="mailto:fauzal@ucdavis.edu">fauzal@ucdavis.edu</a></td>
</tr>
</tbody>
</table>

## Oceania

<table>
<thead>
<tr>
<th>Country</th>
<th>Course</th>
<th>Date</th>
<th>Venue</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Saturday seminars</td>
<td>Monthly: August through November</td>
<td>VIRTUAL</td>
<td>Tony Ross <a href="mailto:tony.rossvetpath@hotmail.com">tony.rossvetpath@hotmail.com</a> Hanna Bender <a href="mailto:hanbender@gmail.com">hanbender@gmail.com</a></td>
</tr>
</tbody>
</table>

## Latin America

<table>
<thead>
<tr>
<th>Country</th>
<th>Course</th>
<th>Date</th>
<th>Venue</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>13th Argentinean Seminar</td>
<td>September 2</td>
<td>VIRTUAL</td>
<td>Alejandra Quiroga <a href="mailto:maquiroga.unlp@gmail.com">maquiroga.unlp@gmail.com</a></td>
</tr>
<tr>
<td>Chile</td>
<td>Ruminant Symposium</td>
<td>August 15 or 16 (TBD)</td>
<td>VIRTUAL</td>
<td>Carlos Flores <a href="mailto:flores.carlos.vet@gmail.com">flores.carlos.vet@gmail.com</a></td>
</tr>
<tr>
<td>Mexico</td>
<td>2nd Mexican Seminar</td>
<td>TBD</td>
<td>Universidad Nacional Autonoma de Mexico, Mexico City</td>
<td>Laura Romero Romero <a href="mailto:lromero@unam.mx">lromero@unam.mx</a></td>
</tr>
<tr>
<td>Uruguay</td>
<td>6th Uruguayan Seminar</td>
<td>August 31</td>
<td>VIRTUAL</td>
<td>José Manuel Verdes <a href="mailto:jmverdes@fvet.edu.uy">jmverdes@fvet.edu.uy</a></td>
</tr>
</tbody>
</table>