



# C.L. DAVIS/S.W. THOMPSON DVM FOUNDATION

A TAX-EXEMPT, DONATIVE, PUBLICLY-SUPPORTED CHARITY  
FOR THE ADVANCEMENT OF VETERINARY AND COMPARATIVE PATHOLOGY

Managing Editors: S. Shrader, DVM, PhD & J. Asin, DVM, PhD

Senior Editor: F.A. Uzal, DVM, MSc, PhD

October 2020

Volume 50 Issue 10

CHAIRMAN OF THE BOARD & PRESIDENT  
Francisco A. Uzal, DVM, MSc, PhD

## BOARD MEMBERS

Cory F. Brayton, DVM  
James Britt, DVM MS  
Bruce H. Williams, DVM  
Corrie C. Brown, DVM, PhD  
Vinicius Carreira, DVM, PhD  
Francisco Carvallo, DVM, PhD  
Jennifer Chapman, DVM  
Mike Dark, DVM  
Rafaela De Negri, DVM, MS  
Fabio Del Piero, DVM, PhD  
Stephen M. Dempsey, DVM  
John F. Edwards, DVM, PhD  
Mr. Robert Hyman, BA, MS  
Kyu-Shik Jeong, DVM, PhD  
Sanja Aleksic-Kovacevic DVM, PhD  
Matti Kiupel, Dr. med.vet., PhD  
Jey Koehler, DVM, PhD  
Ingeborg Langohr, DVM, PhD  
Eric Lombardini, DVM, PhD  
Elizabeth McInnes, BVSc, MS  
Tracey S. McNamara, DVM  
Lonzy Ojok, BVetMed, Dr. DVM, PhD  
Patricia Pesavento, DVM, PhD  
Simon Priestnall, BVSc, PhD  
Vladislava S. Rac, DVM, MS  
Tony Ross, BVSc, MSc, PhD  
Zadok Ruben, DVM, PhD  
Brett H. Saladino, DVM  
Mohamed Slaoui, DVM  
Elemir Simko, DVM  
Paul C. Stromberg, DVM, PhD

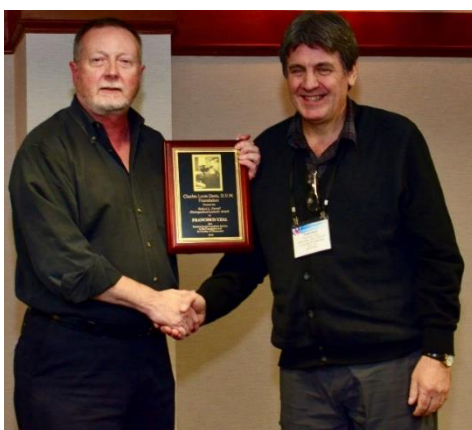
## INSIDE THIS ISSUE

1. [Dr. Uzal New CEO](#)
3. [Dr. Williams New Treasurer](#)
4. [Mexican Seminar](#)
5. [October Virtual seminars](#)
6. [American Lobster Review](#)
7. [Sothcentral Division](#)
8. [AAVLD Seminars](#)
9. [Small Rum Review](#)
8. [Brazilian Virtual Seminars](#)
10. [Surgical Path Vol 3](#)
12. [LCPG Diagnostic Exercise](#)
13. [LCPG Membership](#)
14. [Path of Abortions Review](#)
15. [European Division/BSVP/BSTP](#)
16. [ACVP Pre-Conference Workshop](#)
17. [Australian Seminars](#)
18. [Brazilian Seminars](#)
19. [Next Generation Tech Review](#)
20. [GenPath Review Course](#)
21. [Miscellaneous](#)
23. [Calendar](#)

## Dr. Francisco (Paco) Uzal New Foundation's Chief Executive Officer

*By Bruce H. Williams*

It is my great pleasure to announce for the third time in its 47 year history, the Charles Louis Davis and Samuel Wesley Thompson Foundation has a new Chief Executive Officer, Dr. Francisco (Paco) Uzal.



A member of our Board of Directors for over fifteen years, Paco has risen through the ranks, being the architect of the Latin Comparative Pathology Group (LCPG, aka the Foundation's Latin American Division), the first LCPG President, and ultimately, the Foundation's first Vice-President for Latin American Affairs. His work, often self-funded, established Divisions in Argentina, Colombia, Uruguay, Paraguay, Chile, Peru, and held courses in many others. Three years ago, he was elected President of the Foundation by the Foundation's Board, and has excelled in that job, overseeing the Foundation's courses all over the world (which have ranged up to 50 in some years) as well as being the primary architect in the Foundation's response to the 2020 pandemic, expertly and quickly pivoting from in-person to virtual seminars, while most organizations were still trying to figure whether they would even be capable of having meetings. He has also served twice during that time as the President of the Latin Comparative Pathology Group, not only establishing it, but also establishing it as one of the best-regarded pathology educational organizations throughout Latin America. During his entire time as a member of the Foundation's board and its president, he has lectured for us around the world many times on topics ranging from diseases of horse and ruminants, gastrointestinal disease, and descriptive pathology, and is most assuredly one of our most popular speakers.

Superlatives fail to do justice to Paco's contributions to the field of Veterinary Pathology, and to the education of all those who practice it, especially those who are in the early stages of their career. It has been my great pleasure to work side by side with him in a shared vision of pathology education for everyone around the world, and it is my great honor to call him a friend. As a friend, I am posting a short bio below (to his great chagrin, as one of the most humble men I know) for those few pathologists around the world who have not had the good fortune to meet him.

The position of Foundation CEO and the Chairman of its Board is one that is a career in the making, and a position that is a second career in itself. It calls for men and women of vision, and provides years of service to fulfill that singular individual's vision. Those of us who do it don't do it as a career box check, but because we are driven to improve global education in Veterinary Pathology, and to give back far more than we have been given, all the while allowing others to collect the credit and accolades. It is a job conducted largely off the stage. And so, to the members and friends of the Foundation, I present your new Chief Executive Officer, Dr. Paco Uzal:

"Francisco A. Uzal, DVM, MSc, PhD, Dipl. ACVP, is a Professor of Diagnostic Pathology and Branch Chief of the San Bernardino Laboratory of the California Animal Health and Food Safety, UC Davis. He is a leading expert on clostridial diseases of animals with special emphasis in enteric diseases. Dr. Uzal has published ~ 250 articles in peer reviewed journals. He is the senior author



of the chapter on "Alimentary Diseases", for the 6<sup>th</sup> edition of "Jubb, Kennedy and Palmer's Pathology of Domestic Animals" (2015, Elsevier), and the first author of the recently published textbook on Clostridial diseases of animals (2016, Wiley and Blackwell). He is a diplomate of the American College of Veterinary Pathologists and a member of the American Association of Veterinary Laboratory Diagnosticians. Dr. Uzal is an Associated Editor and Photo Editor of the Journal of Veterinary Diagnostic Investigation and Anaerobe and member of the editorial board of several other journals. He has been the coordinator of the Post-mortem Program for the California Horse Racing Board for the past 12 years. Over the past 15+ years he has mentored a large number of Latinamerican veterinarians and vet students visiting his laboratory in California and lectured in many countries of Latin America, Europe, Asia and Oceania. He received the 2016 Life Achievement Award from HENAA for his contributors to education in science and technology."

## The Foundation Has New Treasurer

*by Paco Uzal*

It is an immense honor and privilege to announce that Bruce Williams has been unanimously elected to the position of Treasurer of the Davis/Thompson Foundation.

Bruce has worked tirelessly for many years as the CEO of the Foundation and before as its president. During this time, he has been the driving force behind providing workshops, seminars and training courses in Veterinary Pathology, both locally and globally, travelling extensively himself and championing other pathologists of all ages, genders and races. His outstanding leadership and organizational skills have been fundamental in solidifying the Foundation's reputation as the number one organization promoting the teaching of Veterinary Pathology in the world. Under his direction, the Foundation has gone from strength to strength with each passing year and, in these very difficult times, reminded stronger than ever.

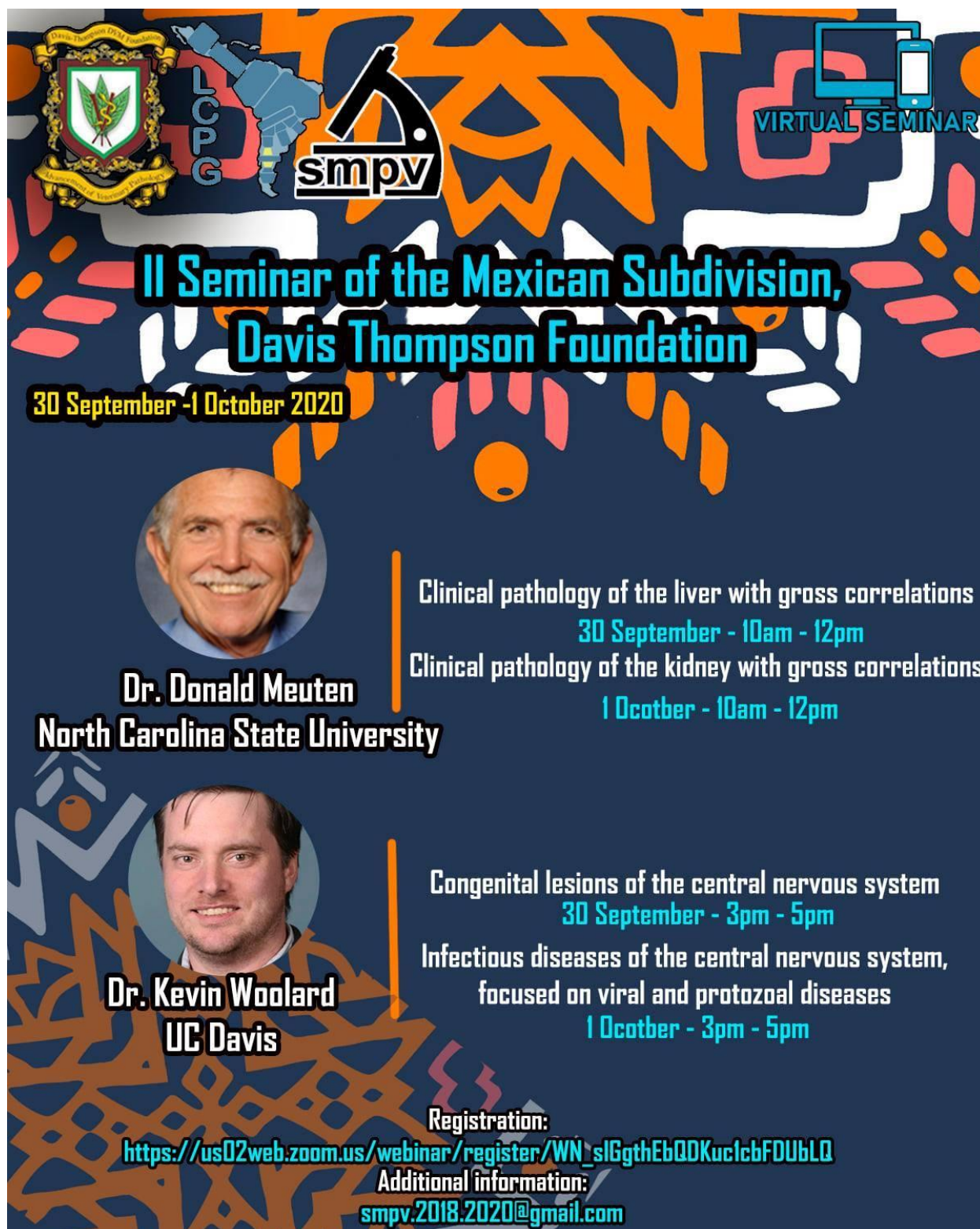


As the realities of COVID hit, Bruce was swift to recognize not only the necessity but also the great potential of online delivery and very quickly figured out the best way to get it done. We are now able to offer an enormous number of webinars and courses worldwide, and reach a substantially increased audience as a consequence of his efforts.

If you know Bruce at all, you will know that he works unrelentingly and is available for the Foundation 24/7. Pathologists young and old look to him as a model of what hard work, a good heart and a strong vision for the future can achieve. I am proud to be his friend and colleague and look forward to many years of collaboration to come.

Rest assured that Bruce will be working just as hard and resolutely as your Treasurer, even though he may not be quite as visible as before, and we remain in very good hands. Congratulations Bruce, we wish you the very best in your new role.





**II Seminar of the Mexican Subdivision,  
Davis Thompson Foundation**

**30 September - 1 October 2020**

**Dr. Donald Meuten**  
North Carolina State University

Clinical pathology of the liver with gross correlations  
30 September - 10am - 12pm  
Clinical pathology of the kidney with gross correlations  
1 October - 10am - 12pm

**Dr. Kevin Woollard**  
UC Davis

Congenital lesions of the central nervous system  
30 September - 3pm - 5pm  
Infectious diseases of the central nervous system,  
focused on viral and protozoal diseases  
1 October - 3pm - 5pm

Registration:  
[https://us02web.zoom.us/webinar/register/WN\\_slGgthEbQDKucIcbFDUuLQ](https://us02web.zoom.us/webinar/register/WN_slGgthEbQDKucIcbFDUuLQ)  
Additional information:  
[smpv.2018.2020@gmail.com](mailto:smpv.2018.2020@gmail.com)

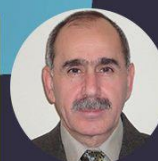
# October Virtual Seminars of the Davis-Thompson Foundation and the Latin Comparative Pathology Group



02  
FRIDAY

Diagnostic poultry pathology:  
from the necropsy room to  
the microscope

SPONSORED BY DTF



**Dr. Tahseen Abdul Aziz**  
North Carolina Veterinary  
Diagnostic Laboratory System

[https://us02web.zoom.us/webinar/register/WN\\_3gv3\\_P1ToOsE1ev7ytANQ](https://us02web.zoom.us/webinar/register/WN_3gv3_P1ToOsE1ev7ytANQ)

Diagnostic series:  
Deductive logic and  
pathological diagnosis

SPONSORED BY DTF

23  
FRIDAY



**Dr. Roger Kelly**  
University of Queensland,  
Australia

[https://us02web.zoom.us/webinar/register/WN\\_TyD8OPnOQ6iqolXLcw3GGQ](https://us02web.zoom.us/webinar/register/WN_TyD8OPnOQ6iqolXLcw3GGQ)

The seminars are free, offered via Zoom and organized by Davis Thompson Foundation President  
Dr Francisco Uzal and the Foundation's Webinar Committee  
Registration is free but required (watch for your invitation to register in the coming weeks).  
Certificates of attendance will be provided to all who attends the live webinar.

**All seminars are at 9-10:30 am (PST), 10-11:30 am (MST), 11 am-12:30 pm (CST), 12-1:30 pm (EST)**



# Lobster: More than just a food item

Participants Review Necropsy Techniques, Histology and Pathology of American Lobster

*By Laura Setyo BVSc (Hons), MRCVS, MANZCVS (Veterinary Pathology), Diplomate ACVP*

On 14<sup>th</sup> July, Dr. Sal Frasca (University of Connecticut) gave a wonderfully unique and unusual presentation on “Necropsy techniques, histology and pathology of the American lobster.” The talk was comprehensive and did not assume any prior knowledge, which was particularly useful for a crustacean novice such as me!



Starting off with the anatomy and physiology of the lobster, Dr. Frasca took us through the structures that make a lobster what it is – the hepatopancreas, the antennules, the walking legs... dinner at a seafood restaurant will never be the same! He then prudently discussed the different ways to appropriately euthanise American lobsters (always appreciated from an ethical standpoint) before taking us through a necropsy how-to guide, highlighting normal and abnormal findings in a lobster necropsy. Following this was a tour of the relevant histology and pathology (gross and microscopic), and finally, an engaging Q&A. And even though they say food terms and pathology aren't ever meant to mix, the education on the difference between Maine and Connecticut lobster rolls was beyond enlightening!

His wealth of knowledge was evident and Dr. Frasca did a brilliant job of covering these creatures in the time given. One shell of a talk by someone who clearly knew his crustaceans!



The poster features a vibrant background with overlapping pink, purple, and orange geometric shapes. In the top left corner is the Davis-Thompson DVM Foundation logo, which includes a shield with a green leaf and a red banner below it. The text '30th' is prominently displayed in large, bold, blue letters with a black outline. Below it, the text 'Southcentral division meeting' and 'Oct. 2-3, 2020. Galveston, TX' is written in white with black outlines. A circular portrait of Dr. Dominique Wiener, a woman with long brown hair, is centered. To the right of the portrait is an icon of a computer monitor and a smartphone, with the text 'virtual meeting' below it. Below the portrait, the text 'Classical Skin Diseases and Hair Follicle Tumors' is written in bold, blue letters with a black outline. Further down, the text 'We want to hear about your cases!' is written in white with a black outline, followed by 'Attendees are invited to present a 10-15 minute report to the group of an interesting case!' in white with a black outline. At the bottom, the text 'Register at:' is written in white with a black outline, followed by the URL 'https://us02web.zoom.us/webinar/register/WN\_a1ruoM-QOCxM04snkiMqQ' in white with a black outline. The background also features a faint image of a bridge and industrial structures.

**30th**  
Southcentral division meeting  
Oct. 2-3, 2020. Galveston, TX

Dr. Dominique Wiener  
Texas A&M University

virtual meeting

**Classical Skin Diseases  
and Hair Follicle Tumors**

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

Register at:  
[https://us02web.zoom.us/webinar/register/WN\\_a1ruoM-QOCxM04snkiMqQ](https://us02web.zoom.us/webinar/register/WN_a1ruoM-QOCxM04snkiMqQ)



**AAVLD**  **VIRTUAL SEMINAR**

## 20th CL Davis/SW Thompson Diagnostic Pathology Symposium: Diagnostic Pathology of Wildlife Diseases

October 16, 2020, Friday,  
9am- 6:30pm (Eastern)


 **Dr. Scott Fitzgerald**  
Michigan State University

 **Dr. Robert Ossiboff**  
University of Florida

**Pathology of Wild Mammals**  
**Pathology of Wild Birds**  
**Pathology of Reptiles**  
**Pathology of Amphibians**

In conjunction with the 63rd Annual AAVLD annual meeting

For more information and registration:  
<https://davisthompsonfoundation.regfox.com/2020aavld>



GLOBAL ANIMAL HEALTH AND WORKING IN DEVELOPMENT

Presented by GHPN, AAVLD and Davis Thompson DVM Foundation

Thursday, October 15, 2020

11:00 AM-8:30 PM



# A Big Day of Small Ruminant Diseases

Participants Review of Small Ruminant Diseases

*By Laura Setyo BVSc (Hons), MRCVS, MANZCVS (Veterinary Pathology), Diplomate ACVP*

4<sup>th</sup> August, and time to strap in for another RACE-accredited Davis-Thompson Foundation day of continuing education. This time, small ruminant diseases were covered, with everything from common diseases, practical aspects, and a special foray into bighorn sheep.



Dr. Lluís Lujan (University of Zaragoza) started us off with an exploration of retroviral diseases of small ruminants. Being some of the most important diseases of small ruminants, the multisystemic inflammatory and neoplastic diseases caused by small ruminant lentiviruses were conveyed in a very lively presentation with colourful and easy-to-follow slides.

After the first break, Dr. Javier Asin (University of California, Davis) took us through ovine respiratory disease. His talk was complemented by a fantastic set of photos and was very practical and relevant. He finished it off with a set of cases delivered boards-style to really get the brain ticking and the heart pumping!



After lunch, Dr. Fabio Del Piero (Louisiana State University) took us through a slew of practical and useful tips on assessing and interpreting small ruminant disease. Chock full of insights that we can easily apply when trying to figure out what is going on in our small ruminants, the presentation was complemented by a brilliant array of photos.

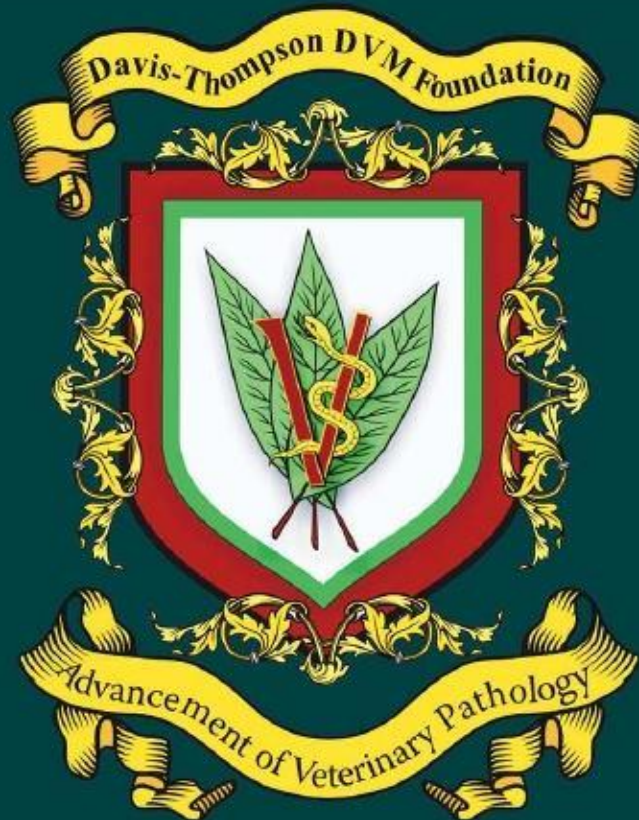
Finally, Dr. Jennifer Malmberg (University of Wyoming)'s lecture on diseases of bighorn sheep comprehensively covered the husbandry and diseases of bighorn sheep. She reviewed the daily life and all-important interactions of bighorn sheep with domestic ruminants and man and delved into the mechanisms of acquiring various forms of pneumonia in these majestic animals.



A great day with something for every member of the herd!

# Surgical Pathology of Tumors of Domestic Animals

Edited by M. Kiupel



## Volume 3: Tumors of Soft Tissue

P. Roccabianca, F. Y. Schulman,  
G. Avallone, R. A. Foster, J. L. Scruggs,  
K. Dittmer, M. Kiupel

**AVAILABLE NOW!!!!**

Click [here](#) to place your order!



Order Form – Surgical Pathology of Tumors of Domestic Animals  
Vol #3 – Tumors of Soft Tissue

Price - US\$40 (does not include shipping)  
BUY 2 COPIES, GET THE SECOND ONE FOR HALF PRICE!  
(THAT'S \$60)

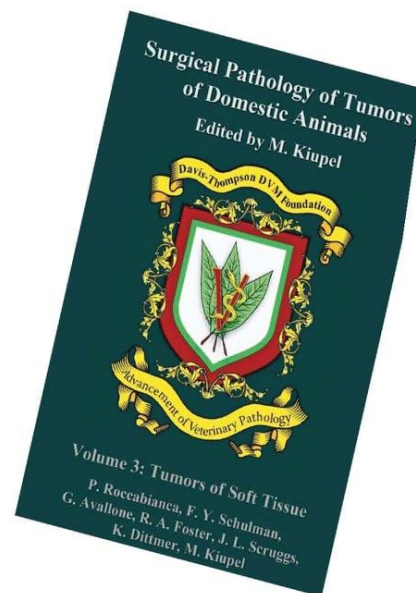
I WANT \_\_\_\_\_ COPIES.

AMOUNT: \_\_\_\_\_ (plus shipping)

SIGNATURE: \_\_\_\_\_

**The Foundation accepts AMEX, VISA, MASTER CARD, DISCOVER**

NAME ON CARD: \_\_\_\_\_  
CARD NUMBER: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
EXPIRATION: \_\_\_\_ / \_\_\_\_  
CVV: \_\_\_\_\_



**BILLING ADDRESS:**

Address: \_\_\_\_\_

City, State, Zip (or applicable if international): \_\_\_\_\_

Country: \_\_\_\_\_

**SHIPPING ADDRESS:** (Check here ☐ If same.)

Address: \_\_\_\_\_

City, State, Zip (or applicable if international): \_\_\_\_\_

Country: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Email: \_\_\_\_\_

**SCAN AND EMAIL THIS ORDER FORM TO: CLDAVISDVM@COMCAST.NET**

If you wish to pay by check or money order, please mail this form and your payment to: The Davis Thompson Foundation, 6241 Formoor Lane, Gurnee, IL 60031-4757, USA

Phone ordering may be done at (1) 847-367-4359 from 8AM-12PM Monday through Friday excluding US Federal holidays or ANYTIME by fax at FAX: 847-247-1869. The Foundation does not take purchase orders. For all any other inquiries (and to enquire about shipping charges), please email us at [cldavisdvm@comcast.net](mailto:cldavisdvm@comcast.net).



## Diagnostic Exercise From The Davis-Thompson Foundation



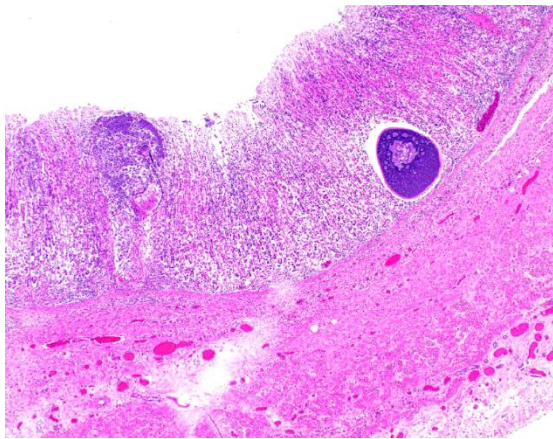
Case #149    Month: September    Year: 2020

**Contributors:** Vanessa J. Oakes DVM, MPH and Francisco R Carvalho MV, DSc, DACVP. Department of Biomedical Sciences and Pathobiology, Virginia-Maryland regional College of Veterinary Medicine, Virginia Tech

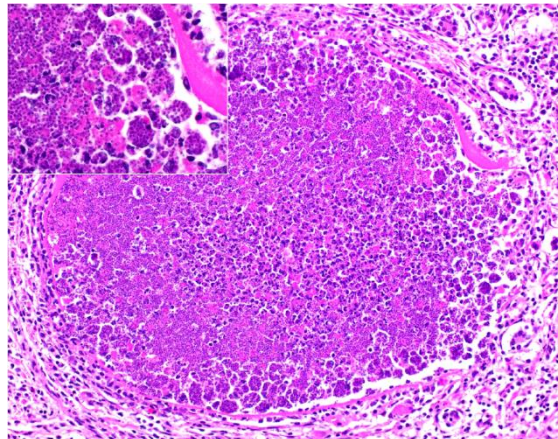
**Clinical History:** A 1-year-old ram lamb was presented for necropsy following a brief clinical history of 2 to 3 days of scours, and a 4-day history of anorexia and hyperdipsia. The producer noted that the lamb often used a provided salt lick.

**Necropsy Findings:** The lamb was in good body condition. The right cranial and middle lung lobes were consolidated, with yellow-tinged foam exuding from small airways on the cut surface. The abomasal mucosa was grey, with few scattered petechiae.

### Microscopic Findings:



Abomasum: viable and degenerate, cysts of apicomplexan parasites are within the mucosa. H&E, 4x




Abomasum: ruptured protozoal cysts infiltrated by large numbers of neutrophils and macrophages. H&E, 20x. Inset: Macrophages containing innumerable merozoites. H&E, 60x

### Follow Up Questions:

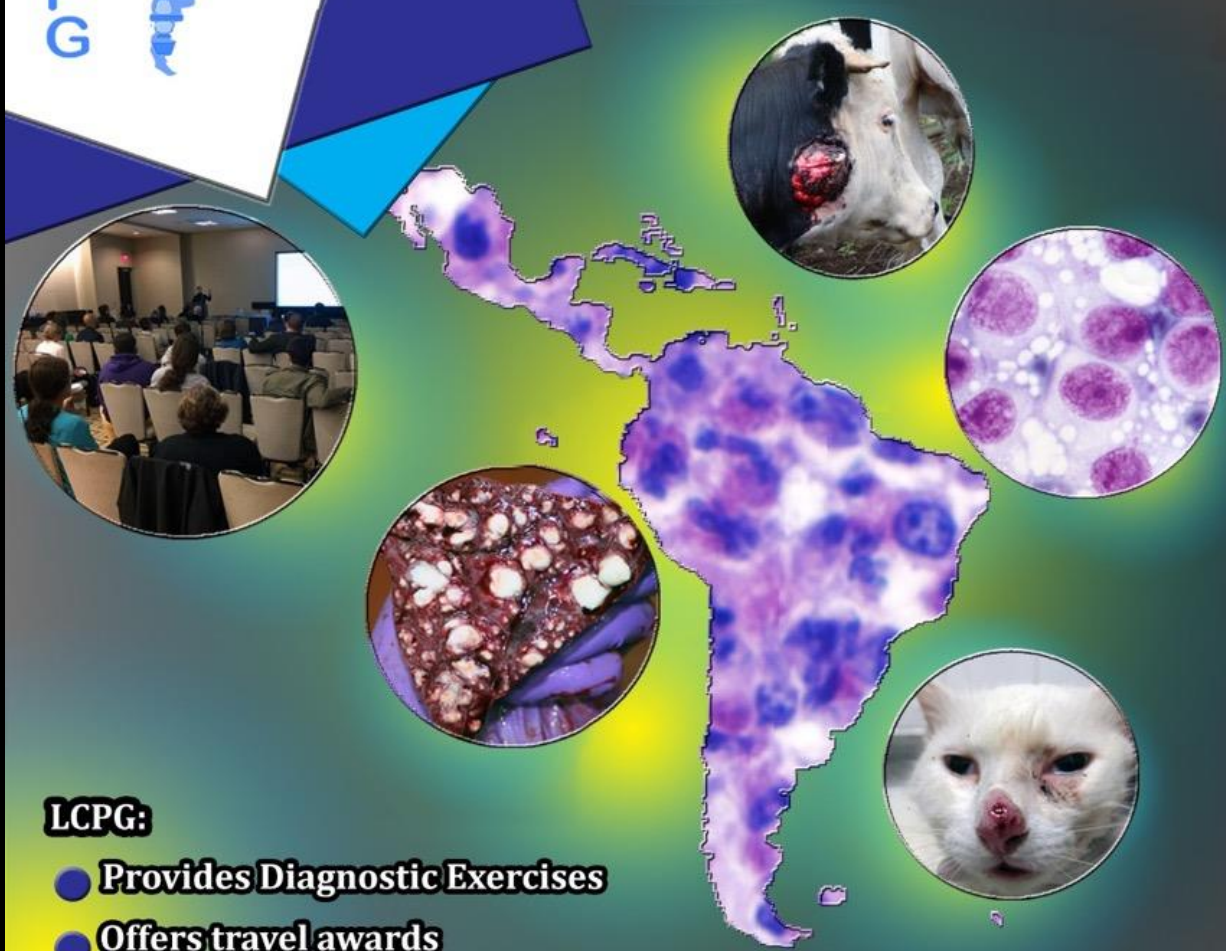
- Morphologic diagnosis?
- Etiology?

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!





## 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](http://www.cldavis.org/lcpg_english)

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



Contact [Francisco.carvallo@gmail.com](mailto: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

# Pathology of Abortion with Emphasis on Ruminants, Horses and Pigs

Participants Review

*By Sofía Rosales. FES Cuautitlán UNAM Anatomic pathology resident.*



On 21st August, Dr. Fred Williams III (University of Missouri) presented an extraordinary review about the main pathogens causing abortion in ruminants, pigs and horses.

At the beginning, he pointed out some important differences between abortion and stillbirth, fetal death and embryonic death and mummification and maceration. He also talked about the difficulty of getting an etiological diagnosis in almost half of the reproductive failure cases and listed the most common influencing factors.

Additionally, he mentioned some important morphological characteristics to look at in order to evaluate the time of fetal death and use it along with lesions to orient the diagnosis.

After discussing the most common bacterial, viral, protozoal, fungal and toxic pathogens in these species, he finalized with a summary of the fetal necropsy protocol, listing the leading samples for each suspect group of agents. This was a very practical lecture for everyone who attempts to remember all the chief details when trying to resolve reproductive failure cases in horses, pigs and domestic ruminants.





## **Virtual seminar of the European Division of the Davis-Thompson Foundation, British Society of Toxicologic Pathology and British Society of Veterinary Pathology**

Date: Wednesday 21st October

Time: 4PM – 530PM BST



Dr. Katie Waine  
University of Nottingham



Dr. Hannah Wong  
BSVP



Dr. Laura Setyo  
University of Surrey



Prof. Simon Priestnall  
Royal Veterinary College



Dr. Gareth Maglennon  
AstraZeneca

**Productive veterinary pathology examination preparation: reflections  
of recently qualified pathologists (BSVP/DTF European Division/BSTP)**

**&  
Q&A panel**

Register at:

[https://us02web.zoom.us/webinar/register/WN\\_M6mmNSrCQTq9pYoUFzUeVA](https://us02web.zoom.us/webinar/register/WN_M6mmNSrCQTq9pYoUFzUeVA)

**NEW  
DATE!**

**October 27th 2020**

**ACVP**  
AMERICAN COLLEGE OF  
VETERINARY PATHOLOGISTS



2020 **Virtual** ACVP Pre-Conference Workshop

# ORAL PATHOLOGY OF COMPANION ANIMALS

The **COMMON**  
The **CLASSIC**  
And the **CONFUSING**



**Dr. Cindy Bell**



**Dr. Brian Murphy**



**Tuesday, October 27th 2020**  
**Time: 8:00am - 5:00pm**

Registration details forthcoming through ACVP website





**Davis Thompson Foundation**  
**Australian Saturday seminars**

**AAPSP**  
Australian Animal Pathology Standards Program

**ASVP**  
Australian Society for Veterinary Pathology

**Saturday 18 July AEST: 10am-12pm/AWST: 8-10am**  
(Friday 17 July 5-7pm PST in US\*)

**Animal models of respiratory disease**

**Dr. Dennis Wilson**  
UC DAVIS, US

**Saturday 5 September AEST: 10am-12:30pm/AWST: 8-10:30am**  
(Friday 4 September 5-7:30pm PST in US\*)

**RESCHEDULED**

**Diagnostic molecular pathology - Bridging the gap between molecular biology and clinical medicine**

**Dr. Matti Kiupel**  
Michigan State University, US

**Saturday 19 September AEST: 10am-12pm/AWST: 8-10am**  
(Friday 18 September 5-7pm PST in US\*)

**In pursuit of a sense of bone**

**Dr. Brian Murphy**  
UC DAVIS, US

**Saturday 10 October AEST: 11am-1pm/AWST: 8-10am**  
(Friday 9 October 5-7pm PST in US\*)

**Avian diseases: Diagnostic challenges and gifts**

**Dr. Leslie Woods**  
UC DAVIS, US

**Saturday 31 October AEST: 11am-1pm/AWST: 8-10am**  
(Friday 30 October 5-7pm PST in US\*)

**Crocodilian pathology and selected diseases of other Australian reptiles**

**Dr. Cathy Shilton**  
**Dr. Karrie Rose**  
Berrimah Veterinary Laboratories, Northern Territory &  
Australian Registry of Wildlife Health, Taronga Conservation Society  
New South Wales, Australia

**Saturday 14 November AEST: 12-2pm/AWST: 9-11am**  
(Friday 13 November 5-7pm PST in US\*)

**Ocular pathology of dogs and cats: From normal anatomy to common lesions**

**Dr. Chris Reilly**  
Insight Veterinary Specialty Pathology, US

\*Please double check session times against 5pm PST (US) in all Australian locations, particularly after daylight savings

**Registration links:**

Animal models of respiratory disease: [https://us02web.zoom.us/webinar/register/WN\\_tqPGa\\_LIT86NdV\\_6-Ap\\_Qw](https://us02web.zoom.us/webinar/register/WN_tqPGa_LIT86NdV_6-Ap_Qw)

Diagnostic molecular pathology - Bridging the gap between molecular biology and clinical medicine: [https://us02web.zoom.us/webinar/register/WN\\_SqFOIrIUQ90YpSidY5090w](https://us02web.zoom.us/webinar/register/WN_SqFOIrIUQ90YpSidY5090w)

In pursuit of a sense of bone: [https://us02web.zoom.us/webinar/register/WN\\_ylr68ZY8sSYGmItiofM9xDA](https://us02web.zoom.us/webinar/register/WN_ylr68ZY8sSYGmItiofM9xDA)

Avian diseases: Diagnostic challenges and gifts: [https://us02web.zoom.us/webinar/register/WN\\_RbPjmQCKQDWwqWz6B58IIA](https://us02web.zoom.us/webinar/register/WN_RbPjmQCKQDWwqWz6B58IIA)

Crocodilian pathology and selected diseases of other Australian reptiles: [https://us02web.zoom.us/webinar/register/WN\\_BI3sOH3hT5mMjty6zyhIPw](https://us02web.zoom.us/webinar/register/WN_BI3sOH3hT5mMjty6zyhIPw)

Ocular pathology of dogs and cats: From normal anatomy to common lesions: [https://us02web.zoom.us/webinar/register/WN\\_LiEIEBUK2T5SjqA9LESKvfw](https://us02web.zoom.us/webinar/register/WN_LiEIEBUK2T5SjqA9LESKvfw)





The poster features a green background with a wavy pattern. At the top, there are three logos: a crest on the left, a circular logo for 'Associação Brasileira de Patologia Veterinária' in the center, and a map of Brazil on the right. Below these logos is the title 'Brazilian virtual seminars' in large, bold, white letters with a black outline.

The main content is organized into five rows, each featuring a circular portrait of a speaker on the left, followed by the seminar title in bold, then the speaker's name and affiliation, the date and time, and a Zoom link at the bottom of each row.

Speaker	Topic	Date & Time	Zoom Link
	<b>Pathology practice in captive wild animals (Anatomia patológica na prática médica em animais selvagens em cativeiro)*</b>	Dr. Renato Santos (UFMG) September 9, 6pm-8pm**	<a href="https://us02web.zoom.us/join/register/WN_6UTdq0TgRhiVhmnAW9Ra8w">https://us02web.zoom.us/join/register/WN_6UTdq0TgRhiVhmnAW9Ra8w</a>
	<b>Selected cases of infectious diseases in Neotropical animals (Casos selecionados de doenças infecciosas na fauna Neotropical)</b>	Dr. José Luiz Catão Dias (USP) September 9, 8pm-10pm	<a href="https://us02web.zoom.us/join/register/WN_qi_ygW_CTU-uJX8wLQgSLA">https://us02web.zoom.us/join/register/WN_qi_ygW_CTU-uJX8wLQgSLA</a>
	<b>Forensic veterinary anatomic pathology (Anatomia patológica forense em animais)</b>	Dr. Paulo Maiorka (USP) October 16, 6pm-10pm	<a href="https://us02web.zoom.us/join/register/WN_2hAaVW6sTlaFHIgNmyC3w">https://us02web.zoom.us/join/register/WN_2hAaVW6sTlaFHIgNmyC3w</a>
	<b>Architectural patterns and cytology (Padrões arquiteturais e a citopatologia)</b>	Dr. Breno Salgado (UFES) November 27, 6pm-7:30pm	<a href="https://us02web.zoom.us/join/register/WN_10k4Td4rTPeneUhlZZNYFQ">https://us02web.zoom.us/join/register/WN_10k4Td4rTPeneUhlZZNYFQ</a>
	<b>Cytohistic correlation: selected cases in dogs and cats (Correlação citohistológica: casos selecionados em cães e gatos)</b>	Dr. Fabrizio Grandi Vet School SP November 27, 7:30pm-10pm	<a href="https://us02web.zoom.us/join/register/WN_uU-yLr-WHqaiPKDiVQYknw">https://us02web.zoom.us/join/register/WN_uU-yLr-WHqaiPKDiVQYknw</a>

\* All seminars are free and offered via the Davis Thompson Foundation Zoom account  
 \*\* All times in Brasília time  
 - Seminar are given in Portuguese

# Embracing the Next Generation of Technology

Participants Review Applications of Unbiased Sequencing Technology in Veterinary Pathology

*By Laura Setyo BVSc (Hons), MRCVS, MANZCVS (Veterinary Pathology), Diplomate ACVP*

On 4<sup>th</sup> September, Dr. Eric Burrough (Iowa State University) talked us through the applications of sequencing in Veterinary Pathology. He covered the use of next generation sequencing in microbial census taking and mixed agent detection. Importantly, he talks about this in the context of validating data and understanding whether the data gained from sequencing is a high enough quality to merit evaluation.

Emphasising how these tools assist the pathologist's role in the deductive process, Dr. Burrough talked through the potential applications of next generation sequencing in routine use alongside handy clinical case examples. His talk was thorough and unbiased, discussing through the disadvantages or risks of routinely using next generation sequencing, as well as underlining its benefits. He used many fantastic analogies and imagery. I particularly loved how he likened the evolution of diagnostic investigation within the world of Veterinary Pathology, to astronomy and the study of the universe.

As the world evolves around us, it becomes imperative for us to remain up-to-date with the technologies that exist, to help us do our jobs better and deliver the best results. Dr. Eric Burrough's seminar on sequencing technology was invaluable in highlighting the ways in which we can stay relevant in a world that is constantly evolving.







**SAVE THE DATE**



**GENERAL PATHOLOGY  
REVIEW COURSE**

Course directors:



Dr. Patricia Pesavento   Dr. Jose G Vilches-Moure

**February 1-6, 2021**

Registration:  
**\$250 for live course**  
**\$100 for re-broadcasting**

Attendance to live course  
limited to 100 people



**VIRTUAL SEMINAR**



## 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](mailto:bruce.h.williams.dvm@gmail.com).

---

## Davis-Thompson Foundation Pathology Externship

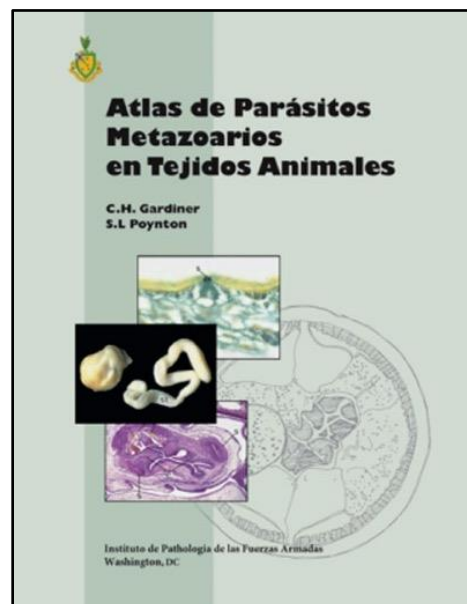
Since 1980, the Davis-Thompson Foundation lab sites have hosted more than 125 veterinary students at 8 participating diagnostic laboratories. These students usually have a strong interest in pathology itself or zoo or poultry medicine that require a strong pathology background. The Foundation is always 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](mailto:jobritt@sbcglobal.net); [501-912-1449](tel: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](http://cldavis.org/PDFs/atlas_esp.pdf)




## News from the STP

Courtesy of the Student Interactions Subcommittee of the CDOC



SOCIETY OF  
TOXICOLOGIC PATHOLOGY

# Virtual Student/Mentor Mixer



Hosted by STP Career Development and Outreach Committee  
Student Interactions Subcommittee

**When:** October 26<sup>th</sup> 2pm PST/5pm EST  
**Who:** CDOC leadership and Executive Committee members- and YOU (trainees and students!)  
**How:** WebEx link provided to registrants – If interested please email April Brewer([abrewer@toxpath.org](mailto:abrewer@toxpath.org))  
**What:** Open discussion with STP mentors- your chance to ask questions about tox path!  
annnnddd...

## PRIZES!!!

Including free STP student membership, textbook,  
and prize for **BEST COSTUME**

Remember, 2021 Award Applications Due Soon!

- Nov 1: Daniel Morton and Laura Dill Morton Scholarship: [Click Here for More Info](#)
- Nov 1: IATP/STP Charles Capen Trainee Award: [Click Here for More Info](#)

## CALENDAR FOR UPCOMING EVENTS 2020

North America				
Country	Course	Date	Venue	Contact
USA	30 Annual Southcentral Division Meeting	October 2-3	VIRTUAL Details TBD	Jim Britt, Ed Dick jobritt@sbcglobal.net
	20 <sup>th</sup> Annual Diagnostic Pathology Seminar-AAVLD	October 16	VIRTUAL	Matti Kiupel kiupel@msu.edu
	ACVP Pre-Conference workshop	October 27	VIRTUAL	Jennifer Chapman chapmanjl@verizon.net
	Free Friday Seminars	Weekly: through December	VIRTUAL	Bruce Williams bruce.h.williams.dvm@gmail.com Paco Uzal fauzal@ucdavis.edu
	Tuesday Day Seminars	Every second or fourth week: through December	VIRTUAL	Bruce Williams bruce.h.williams.dvm@gmail.com Paco Uzal fauzal@ucdavis.edu
	Gen Path Review Course	February 1-6, 2021	VIRTUAL	Patty Pesavento papesavento@ucdavis.edu
Oceania				
Country	Course	Date	Venue	Contact
Australia	Saturday seminars	Monthly: August through November	VIRTUAL	Tony Ross tony.rossvetpath@hotmail.com Hanna Bender hanbender@gmail.com
Latin America				
Country	Course	Date	Venue	Contact
Mexico	2 <sup>st</sup> Mexican Seminar	September 30-October 1	VIRTUAL	Laura Romero Romero lromeror@unam.mx
Brazil	Brazilian virtual seminars	August through November	VIRTUAL	Breno Salgado breno.salgado@ufes.br
Europe				
Country	Course	Date	Venue	Contact
UK	European Div/BSVP/BSTP	October 21	VIRTUAL	Laura Setyo l.setyo@surrey.ac.uk