What’s New with Noah?

Last December, the Davis-Thompson Foundation assumed the management of Noah’s Arkive, one of the most eulogized and beloved training resources for veterinary pathologists since its inception in the 1980s. In April of this year, the Foundation rolled out Noah’s Arkive on its own server at http://noahsarkive.cldavis.org. Since that time and many thousands of hits later, Noah’s Arkive continues to evolve, while retaining the visual information that makes it the most popular veterinary image archive in the world.

We caught up with the Foundation CEO Bruce Williams to find out what parts of “Noah” have been retained, what’s new, and what is planned for its future.

How does the new Noah’s Arkive differ from the old one?

First of all, Noah’s Arkive is now absolutely free to the world. There are no longer any subscription fees.

Next, we are starting to edit Noah’s Arkive both in terms of existing images and data, as well as adding new material. We have added over 1400 new images since it’s April rollout, 1300 of which are of nonhuman primate pathology. We have also added additional information fields to each image, which will allow us, over time, to add appropriate comments and learning points and truly expand the educational potential for every slide beyond the simple diagnoses contained in the original database.

The Foundation already has a stockpile of over 40,000 additional images from retired pathologists which we are reviewing, selecting the best, digitizing, and adding to Noah on a daily basis. We
which we are reviewing, selecting the best, digitizing, and adding to Noah on a daily basis. We have a growing group of editors who are adding images from these donated collections as well as from their own, and we are also beginning the huge process of updating the metadata for the 30,000+ original images. Disease names change names of bacteria and viruses have changed, and we know much more about the pathogenesis of a number of these conditions than we did before. Over time, we hope to have all of this updated, but it is going to be a huge undertaking.

You said “editing”; does this mean you are throwing out images from Noah’s Arkive? You can’t do that, they are classics!

No, all of the original images are being saved, but images of poor quality, low resolution, ones that were scanned from scratched or dirty kodachromes, or that simply aren’t representative will no longer being displayed on a search. They’re all there, I can assure you, but by pruning some of the lesser quality images, we make searches more rapid and more fruitful.

Is the search function any good?

We have a new, excellent search function which simply allows you to type in any keyword and it will pull up all of the images in which that particular word appears in any field. Additionally, you can quickly narrow your search by choosing common parameters like species, organ system, or tissue from drop-down menus. The search function also allows you to view thumbnails of all of the images retrieved on your search, or not if you are not connected to wifi.

Can I search it on my phone and iPad?

Yes, and it looks fantastic!

I want to use some images in an upcoming publication? Can I do that?

The Foundation cannot grant copyright privileges on any of the images – we don’t own it, nor do we want to. We also only have the electronic images; some but not all of the original kodachromes are still maintained at the University of Georgia. We strongly recommend contacting the original contributor (part of the data on each slide) for permission as well as a high-resolution image, as many of the online images will not meet print requirements. You may also want to contact Dr. Buffy Howerth at UGA to see if she may still have the original kodachrome.

For basic teaching purposes, like use in a Powerpoint lecture – a link back to the online Arkive is always appreciated.

I’ve got lots of images I would like to contribute, how can I do that?

Well that is one of the exciting things that we are working on. Hopefully, by the end of the year, you will be able to upload your digital images and associated metadata (including comments) to Noah’s Arkive. They will be evaluated by our editing team, and if appropriate for the Arkive, approved and put on display.

I’ve got all of these great kodachromes, but no way to scan them. I think they would be great for Noah’s Arkive…

If you would like to donate them to the Foundation, we will review them, scan them, and add them to Noah. It may take a while, and likely not all will go up. We are trying to choose the best and most representative images, and face it, we all need a good objective editor.

This sounds great. How can I support Noah’s Arkive and other things the Foundation is doing?

Every donation, no matter how small, supports this and other Foundation activities like our online lecture portal, our independent study centers, and are meetings in developing countries. We made a conscious choice to make Noah’s Arkive available to the world at no charge, hoping this would stimulate users to become members or lapsed members to reestablish their membership. Attend one of our meetings and get extra value. Or volunteer your time, the Foundation is an all-volunteer organization and we are always interested in finding pathologists who want to help with our many projects with their own time.
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 williams@cldavis.org.

From the Davis-Thompson Foundation Store

What is the largest selling book ever in veterinary pathology?

You may not know this, but John King’s Necropsy Book (now in its fifth edition) has sold more copies around the world than any other book in our specialty. Pocket-sized and packed with down-to-earth knowledge when you need it (right there on the necropsy floor), it is a must-have for every pathologist and pathologist in training. This edition contains things that you won’t find in any other pathology textbook – the best autopsy techniques, classic “non-lesions” encountered in various species, even characteristic smells encountered with certain diseases, and all for only $40 (plus $8 for international shipping). To order, visit http://store.cldavis.org or call 1-847-367-4359.

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.
BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

CES 9: Cardiovascular system
Tuesday 18th - Thursday 20th July 2017

Registration for this symposium will open soon!

This symposium will provide an in-depth coverage of cardiovascular system pathology. This is an intermediate level symposium covering INHAND nomenclature for the cardiovascular system; evaluation of the cardiovascular system and species variation; drug induced vasculitis; cardiovascular pathobiology and possible mechanisms; safety pharmacology, biomarkers, clinical pathology and haematological evaluation of the cardiovascular. There will also be workshops/case presentations on cardiovascular system problems which will form an important part of the symposium.

BSTP ANNUAL SCIENTIFIC MEETING
Biologics
Thursday 16th and Friday 17th November 2017
Knutsford, Cheshire, UK

Registration will open late spring/early summer for this meeting.

Although the programme outline is still in the early stages, it is envisaged that there will be 4 or 5 main topics: Biologics, unexpected immuno-biologics and associated pathology, PK exposure, inhaled biologics, biologics – immune-modulators, miscellaneous session on new and emerging areas: CAR T cells.

CES 10: Endocrine system, Tuesday 5th - Thursday 7th December 2017, University of Cambridge

CES 11: Lymphoid & haemopoietic systems, March 2018

CES 12: Musculoskeletal, mammary and skin, July 2018

BSTP Annual Scientific Meeting, November 2018

BSTP – Mouse Models of Disease, December 2018

For further information on any events organised by the BSTP, please contact the BSTP Secretariat - bstpoffice@aol.com or check out the website – http://www.bstp.org.uk/bstp-events/
Diagnostic Exercise
From The Davis-Thompson Foundation*

Case #: 78 Month: March Year: 2017

Contributor: Daniela Farias da Nóbrega, DVM; Ana Paula F. R. L. Bracarense, DVM, Doctorate in Veterinary Pathology. Laboratory of Animal Pathology, Universidade Estadual de Londrina, Paraná, Brazil.

Clinical History: An 8-year-old, male Yorkshire dog presented with a 2-month history of cystitis and a 0.5 cm (diameter) nodule in the craniaoventral wall of the urinary bladder mucosa visualized by ultrasonography.

Microscopic Findings:

![Figure 1. Dog, urinary bladder; H&E, 20x objective.](image)

Follow-up questions: Description and morphologic diagnosis.

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!
11° Argentinean Seminar of the CL Davis – SW Thompson Foundation
8° Meeting of the permanent forum on teaching veterinary pathology

5, 6 and 7 July 2017
School of Veterinary Sciences, University of Buenos Aires
Chorroarín 280, Ciudad Autónoma de Buenos Aires, Argentina

Faculty and Topics:

**Wednesday 5: Pathology of the alimentary system**
*Francisco A. Uzal, DVM, FRVC, MSc, PhD, Dipl. ACVP*
University of California, Davis
Co-author of Alimentary system chapter, JKP Pathology of Domestic Animals, 6th edition

**Thursday 6: Dermatopathology of dogs and cats**
*Verena K. Affolter, Dr Med Vet, PhD, Dipl. ECVP*
University of California, Davis

**Friday 7: Meeting of the Permanent Forum on teaching of veterinary pathology**

*Coordinator: Dr. Leonardo Minatel*
Department of Pathology, FCV, UBA

Contact and information:

patologia@fvet.uba.ar;
lminatel@fvet.uba.ar
44th Annual Gross Pathology Course

July 10-14, 2017
Colorado State University
Fort Collins, Colorado, USA

Lectures on macroscopic pathology of:
• Horses
• Dogs and Cats
• Ruminants (Large and small)
• Marine Mammals
• Laboratory Small Animals
• Non-human Primates
• Aquatics
• Avian (Domestic and Exotic)
• Swine
• Reptiles and Amphibians
• Zoo and Wildlife Mammals

Mock Gross Exam

This course satisfies RACE CE requirements

For more information, including tuition, venue, schedule, and accommodations visit:
http://www.cldavis.org/upcoming.html#203

Registration is now available online!

Course director:
Dr. Eric Lombardini
719-663-0547
elombardini@hotmail.com

Colorado State University
College of Veterinary Medicine and Biomedical Sciences
2017 CLINICAL PATHOLOGY WORKSHOP
for Veterinary Anatomic Pathologists

July 26-27, 2017

Virginia-Maryland College of Veterinary Medicine
at Virginia Tech in Blacksburg, Virginia

How to Register:
Go to: [http://www.cpe.vt.edu/](http://www.cpe.vt.edu/)
➔ Click “Register for programs” button
➔ Enroll in Training/Workshops
➔ Use the Search Function for Course #100118

For assistance registering, please contact Virginia Tech Professional & Continuing Education, 540-231-5182, or cpeinfo@vt.edu.

For more information, please contact Dr. Sarah Barrett (shammond@vt.edu) or see course information on registration page.
2017 CURRENT LAB ANIMAL SCIENCE SEMINAR
Course Director LTC Sara Bro
sarah.l.bro.mil@mail.mil

2017 PATHOLOGY OF LAB ANIMALS COURSE
Course Director: Angela Brice
abrice@upenn.edu

Univ. of Penn College of Vet Med - 29 July - 4 Aug 2017

Eighth Edition of the NRC Guide • Pathology of Lab Fish • Pathology of Rats and Mice • Pathology of Minipigs • Preparing for the ACLAM Board • Pathology of the “Irrelevant Rodents” • AVMA Euthanasia Guidelines • Clinical

Tuition: CLASS only $350
POLA only- $600
Combined CLASS/POLA - $750
Foundation members receive $100 discount!

This course has been submitted (but not yet approved) for 60 hours of continuing education credit in jurisdictions which recognize AAVSLECA.
## Courses in Latin America – 2017

<table>
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<tr>
<th>Country</th>
<th>Course</th>
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</thead>
</table>
| Argentina | 11th Argentinean Seminar of the CL Davis – SW Thompson Foundation | July 5-6       | Faculty of Veterinary Sciences, Buenos Aires University, Buenos Aires | Verena Affolter, UCDavis Francisco Uzal, UCDavis       | -Dermatopathology  
-Derpersonary system | Leonardo Minatel lminatel@fvet.uba.ar |
| Brazil  | 18th Brazilian Meeting on Veterinary Pathology and 10th Brazilian Symposium of the CL Davis - SW Thompson Foundation | July 17-20     | Brasilia University Center (UniCEUB), Brasilia | Patricia Pesavento, UCDavis  
*Brian Murphy, UCDavis  
Ingeborg Langohr, Louisiana State University | -Pathology of dogs and cats  
-Workshop on ocular pathology | Fabiano Sant'Ana santana.jf@yahoo.com |
| Perú    | 2nd Peruvian Seminar of the CL Davis - SW Thompson Foundation          | August 22-24   | Major National University of San Marcos, Lima | Bruce Williams  
Ingeborg Langohr, Louisiana State University | -Gross and microscopic descriptions & diagnoses  
-Diseases of pigs  
-Pig necropsy wet lab | Rosa Perales rperales_fmv@hotmail.com |
| Colombia | 5th Colombian Seminar of Veterinary Pathology and Ichtiopathology of the CL Davis - SW Thompson Foundation | August 30 and Sept 1 | Colombia, National University, Bogota  
Michigan State University  
Francisco Uzal, UCDavis | Ingeborg Langohr, Louisiana State University  
Matti Kiupel, Michigan State University  
Francisco Uzal, UCDavis | -Dermatopathology of dogs and cats  
-Respiratory & alimentary disease of pigs  
-Fish Pathology  
-Clostridial diseases of pigs | Carlos Iregui caireguic@gmail.com |
| Ecuador | 1st Equatorian Seminar of the CL Davis - SW Thompson Foundation        | Sept 20-22     | Venue to be determined, Quito              | Francisco Uzal, UCDavis  
Other speakers to be determined | -Clostridial diseases  
-Brucellosis  
-Gross diagnosis | Gabriela Toro Mayorga gabriela.toro@patvetec.com |

Looking forward to seeing you at one or more of these courses!
European Division Pathology Symposium
29-30 August, 2017
Lyon Veterinary School
Lyon, France

Join us for a symposium focusing on lymphoma including lectures as well as clinical case workshops and discussions immediately before the ESVP meeting.

SPEAKERS:
Dr. Amy Durham & Dr. Thierry Marchal

The symposium will be held at Université Catholique
Registration includes lunch and refreshments each day
Early registration (until June 30th): €385
After July 1st: €435

Traveling Scholarship Awards
The CL Davis European Division has funds to sponsor five awardees to attend the European Division Pathology Symposium. The award will comprise a grant of €400 towards the cost of travel and accommodation. There will be no registration fee. These scholarship awards are open to veterinary pathologists in training in European veterinary schools or research institutes. Preference will be given to applicants who are studying for higher degrees or who wish to gain further qualifications in pathology. Applicants should send a Curriculum vitae giving full details of their pathology experience and career plans together with a nomination by their Head of Department to the conference organiser Dr Simon Priestnall at spriestnall@rvc.ac.uk
Closing date: June 30th, 2017

Registration and online payment: www.cldavis.org under the European Division
5TH INTERNATIONAL COURSE/SEMINAR OF VETERINARY AND FISH PATHOLOGY

30, 31 AUGUST AND 1ST SEPTEMBER 2017

DERMATOPATHOLOGY AND ONCOPATHOLOGY OF SMALL ANIMALS
(CLINICAL CORRELATION)
Matt H Kiewel, BSc, DVM, MVSc, PhD, DACVP
Philip Bergman, DVM, MSc, PhD, DACVIM
Elizabeth Mauldin, BSc, DVM, DACVP, DACVD
Jorge Enrique Almansa, MV, Esp, MSc
Henry Benovides, MV, ACNV
Jineth Acosta, MD, Esp
Orlando Ricouote, MD, Esp

PORCINE PATHOLOGY
Francisco Uzal, DVM, FRVC, MSc, PhD, DACVP
Darío Mogollón, DMV, MSc, PhD
María Antonia Rincón, MV, MSc, PhD
Jahnier Andrés Caicedo, MVZ, Esp, MSc
Ingeborg Langohr, BSc, DVM, MSc, PhD, DACVP

TILAPIA HEALTH AND PATHOLOGY
Edward Noga, BSc, DVM, MSc
Carlos Iregui, MV, PhD
Miguel Rubio Godoy, Lic, MSc, PhD
Paola A Barato G, MV, Esp, PhD
Gerson Vasquez, MVZ, MSc (candidato)

Organizers: Sponsors:
Pre-conference workshop:

“Post-mortem Examination of Poultry and Diagnostic Gross Pathology of Poultry Diseases”

A PowerPoint Presentation by:

Dr. Tahseen Aziz, DVM, MS, PhD, Diplomate ACPV,
Veterinary Pathologist and Diagnostician (Avian)

Date: Monday, September 4th, 2017
Time: 10:00 AM – 1:00 PM
Place: Edinburgh International Conference Centre
Registration Fee: £75 per person (Register on-line)

To be competent in diagnosing poultry diseases is an essential requirement for a good poultry veterinarian. So if you want to be a proficient poultry diagnostician, then you will benefit from attending this workshop.

The presentation will start with an overview of necropsy and post-mortem examination of poultry. The next part will cover gross pathology of diseases of commercially-raised chickens (broilers, broiler breeders, and table-egg layers) and backyard/hobby chickens, as well as some diseases of turkeys, game birds, and waterfowl. Gross lesions and some histopathological lesions of diagnostic poultry cases will be presented and explained. Additionally, etiology, ancillary laboratory tests, and differential diagnoses will be discussed.

Diagnosis of poultry diseases requires a combination of skill and knowledge, and it includes history, clinical signs, necropsy findings, and ancillary laboratory tests. Because gross lesions, as determined by necropsy are so fundamental to poultry disease diagnosis, poultry veterinarians must be able to recognize and interpret gross changes in organs and tissues. Necropsy findings together with clinical history often allow a presumptive diagnosis, which is very valuable in today’s intensive poultry production.

Dr. Aziz is the avian pathologist and diagnostician at Rollins Animal Disease Diagnostic Laboratory of North Carolina Department of Agriculture in Raleigh, North Carolina, USA. He has over 30 years experience in poultry health and avian pathology.
The RTP Rodent Pathology Course is a state-of-the-art biennial course that showcases local North Carolina pathology expertise as well as speakers from around the nation and world. The course is designed to provide useful information on current issues and techniques in rodent pathology to research and diagnostic pathologists, pathologists-in-training, and interested members of the research community. The eighth biennial course will focus on “Current Topics in Rodent Pathology” including reproducibility of animal research studies, developmental pathology & embryology, microbiota, humanized mouse models, and more!

Detailed information about this year’s course, including schedules, speakers, lodging, and registration, can be found on the course webpage.

Scan the QR code or visit rtprodentpathology.org.
AAZV 24th Annual
Zoo & Wildlife Pathology
Workshop 2017
In conjunction with the annual AAZV meeting
Sunday, September 24th from 8:00 AM – 5:00 PM
Dallas, Texas

The theme of this year's AAZV/Davis-Thompson Foundation pathology workshop will focus on fungal diseases. Cases from pathologists from around the world will be enlisted to illustrate the topic of mycotic diseases throughout an interactive morning session. The afternoon session will include examples of the most interesting cases pathologists and clinicians have seen in recent years.

CALL FOR CASES
If you wish to present a case, please email a brief description of the case to Bruce Rideout: (brideout@sandiegozoo.org) by June 30th
Preference given to those cases involving fungal diseases in zoo or free-ranging wild animals

KEYNOTE PRESENTATION:
Emerging Fungal Diseases in Animals and Humans
Dr. Shawn Lockhart, Ph.D., D(ABMM)
Centers for Disease Control and Prevention

Tentative cost: $175 ($100 for veterinary students), which includes thumb drive, handouts, and refreshments. All participants must register for this course.

Remember that you are welcome to attend the Workshop even if you have not submitted a case.

The syllabus from the case write-ups should be available at least one week prior to the workshop and can be downloaded from the Davis-Thompson Foundation website at http://www.cldavis.org/syllabi.html. A thumb drive with the histologic case findings and syllabus will be distributed to all presenters and registered attendees (Note: The software used to create the images of the scanned slides and associated documents is only compatible with PCs, but Mac users will be provided instructions on how to access case descriptions and virtual slides online).
27th Annual
Davis-Thompson Foundation
South Central Division Meeting
TAMU Galveston Campus
October 6-7, 2017

Suggested Hotels (no room block)
- Holiday Inn Resort on the Beach
  (866) 221-8591
- The Six Flags Resort
  (844) 203-5351
- Hilton Galveston Island Resort
  (844) 203-5351

Guest Lectures:

- **Ocular Pathology** by Ingeborg Langohr, DVM, PhD, DACVP, Louisiana State University
- **Gross Gastrointestinal Pathology**, Fabio del Piero, DVM PhD, DACVP, Louisiana State University

- Anatomic, clinical pathology and lab animal case reports welcome

- Submit two slides and electronic write-up to Dr. Edward Dick, edick@txbiomed.org
  Visit [http://www.cldavis.org/courses/upcoming.html](http://www.cldavis.org/courses/upcoming.html)

**Course Director:**
Dr. Jim Britt, (501) 912-1449 jobritt@sbcglobal.net Register at cldavis.org

Please contact Dr. Jim Britt for further information on CE credits.
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
CALENDAR OF UPCOMING EVENTS

July 2017
07/05-07/07 – 11th Argentinean Seminar of the CL Davis – SW Thompson Foundation
07/10-07/14 – 44th Annual Gross Pathology Course – Colorado State University, Fort Collins, CO
07/17-07/20 – 18th Brazilian Meeting on Veterinary Pathology and 10th Brazilian Symposium of the CL Davis - SW Thompson Foundation
07/26-07/27 – Clinical Pathology Workshop for Veterinary Pathologists, Blacksburg, Virginia
07/29-08/04 – 2017 CLASS/POLA, University of Pennsylvania, PA

August 2017
08/22-08/24 - 2nd Peruvian Seminar of the CL Davis – SW Thompson Foundation
08/29-08/30 – European Division Pathology Symposium – Lyon, France
08/30-09/01 – 5th Colombian Seminar of Veterinary Pathology and Ichtiopathology of the CL Davis - SW Thompson Foundation
08/30-09/01 – 5th International Course/Seminar of veterinary and Fish Pathology, Bogota - Colombia

September 2017
09/04 – Post-mortem Examination of Poultry and Diagnostic Gross Pathology of Poultry Diseases, Edinburgh, Scotland
09/17-09/19 – 8th Biennial RTP Rodent Pathology Course – Raleigh, NC
09/20-09/22 – 1st Equatorian Seminar of the CL Davis - SW Thompson Foundation
09/24 – Zoo & Wildlife Pathology Workshop – Dallas, TX

October 2017
10/06-10/07 – 27th Annual Davis-Thompson Foundation, South Central Division Meeting, TAMU, Galveston, TX

BOOKSTORE ORDERS
We occasionally have problems with overseas credit card orders through the bookstore. If you find you cannot place your order please email, call or fax the Foundation at phone: 847-367-4359; fax: 847-247-1869; email: cldavisdvm@comcast.net. Make sure you include your name, address, phone, email address and credit card number with expiration date and we will ship your purchase immediately.