The ASVP annual conference started bright and early when the delegates registered at 8:00 on Friday 11 October, 2013. Our first speaker was Prof Keith Thompson from Massey University and he spoke on the fundamentals of bone structure and response to injury. Prof. Thompson’s lectures were well presented, beautifully illustrated and very well organized. Highlights included detailed photographs of osteoclasts, cement lines and the empty lacunae seen in bone necrosis. Prof. Thompson continued with metabolic bone disease with an interesting discussion on rickets, fibrous osteodystrophy, osteoporosis and scurvy. The DMP 1 mutation defect in Corriedale sheep causing inherited rickets and the red bones and teeth of porphyria were of particular interest. Prof. Thompson highlighted the pitfalls of osteosarcoma diagnosis and encouraged the use of the alkaline phosphase stain which identifies osteoblasts. Finally, Prof. Thompson discussed various skeletal dysplasias such as spider lamb syndrome and osteogenesis imperfecta with characteristic blue sclera.

After lunch, Dr Caroline Smith, a medical pathologist at SA Pathology, managed, in a short period of time, to illustrate perfectly the pathology of the human muscle diseases which was most appreciated by the audience. Human muscle pathologists have the advantage of fresh muscle specimens and are thus able to perform ATPase (pH4.6) staining which allows for accurate identification of muscle fibre types and NADH-TR staining which demonstrates the presence of mitochondria. Dr Smith illustrated statin myopathy (of particular interest to those taking statins!) and finished with a cautionary tale where the aluminum within macrophages from a recent intramuscular vaccination was mistaken for a rare muscle disease!

Prof. Peter Windsor conducted a useful review of the skeletal disorders of Australian livestock, which was well received. Peter’s career has combined pathology with clinical practice and he has published extensively on congenital inherited muscle and skeletal diseases in sheep and cattle such as Angus Arthrogryposis Multiplex and Romagnola Paunch Calf Syndrome.

The final session of the day was the interactive audience voting session with Prof. Thompson presenting macroscopic bone cases and the audience voting on their choice of five different diagnoses (with individual clicker pads.)
Once the audience were reassured that the results were anonymous and that the organizing committee had no intention of publishing how many pathologists had chosen the incorrect diagnosis, the audience entered into the spirit of the exercise and a great time was had by all!!

Saturday was devoted to skeletal muscle pathology. Our highly recommended skeletal muscle speaker was Prof. Beth Valentine who calmly and modestly presented three lectures on the features of skeletal abnormalities using only fixed muscle tissues stained with Haematoxylin and Eosin and other stains such as Masson’s Trichome. Highlights included equine polysaccharide storage myopathy and pictures of denervation injury with angular, severely atrophied muscle fibres. Prof. Barry Cooper delivered a short lecture on skeletal muscle tumours and warned about the possibility of mistaking a horse pseudotumour (made up of disorganized muscle and connective tissue fibres) for a tumour.

The ASVP AGM was swiftly conducted before tea and then the delegates reconvened for the four Mystery slides. The cases of adenovirus infection in a young dog’s liver, a renal carcinoma in a horse, melakoplakia in a canine urinary bladder and possible hairy vetch poisoning in a cow were revealed and discussed by Drs Lucy Woolford, Allan Kessell, Daren Hanshaw and Prof. Keith Thompson respectively. The audience loved this session and discussion from the delegates and speakers alike was brisk, well-informed and witty!!

The Sunday session was made up of members’ presentations and this entailed fascinating talks on subjects as diverse as *Nocardia mexicana* arthritis, avian bone formation, cutaneous vasculitis following Meloxicam administration in a dog and opium poppy toxicity in sheep. The ASVP were delighted to announce that the winners of the Best Young Presenter’s award and the Best Presenter’s award were Dr Effie Lee from the Department of Primary Industries in Sydney and Dr Robert Barigye from Berrimah Veterinary Laboratories in the Northern Territory, respectively. Dr Lee delivered an excellent overview of, and case reports concerning monensin toxicity in cattle. Dr Barigye demonstrated the process of developing and validating immunohistochemical detection of bovine ephemeral fever virus antigens in bovine tissues. Both winners received a $250 book voucher each from Wiley and Sons (one of our generous sponsors).

The Stamford hotel venue was very comfortable with excellent food and wine (particularly at the conference dinner). The city of Adelaide is stately and quiet with beautiful Victorian architecture and offers tranquil walks along the Torrens River which provides an oasis of calm in the middle of the city. The annual ASVP conference was well coordinated by the ASVP executive committee members, who did a great job in keeping the lectures punctual, but at the same time giving some freedom of discussion for interesting topics.

Free registration recipients included Gloria del Fiero from Melbourne (resident), Subir Saker from CSU (PhD student), Ariel Stevenson from Adelaide (undergraduate), Patricia Poon from Sydney (resident) and Ziyuan Lim from Murdoch (resident). The recipients stressed that they were very grateful to ASVP for awarding them with their free registration. Ziyuan Lim from Murdoch mentioned that she had found the meeting useful and had enjoyed networking with delegates and speakers.

As usual, delegates were able to interact with the speakers and with each other and exchange different points of view. The atmosphere of the meeting was very relaxed and there was good participation during the talks with questions and different comments. Thanks are extended to our generous sponsors who included PIRSA, IDEXX, Gribbles Veterinary Laboratories, CL Davis DVM Foundation, Vetnostics, Pike Wines and Wiley and Sons.
Workshop & Symposium on Laboratory Animal Diseases
Sponsored by the C.L. Davis DVM Foundation
Chicago, Illinois, U. S. A.
Wednesday 23 April through Saturday, 26 April, 2014

- Symposia on “Emerging Diseases of Rats” by Dr. Krista LaPerle of The Ohio State University, and “Diseases of Zebrafish” by Dr. Claudia Harper of Biogen Idec, Inc.

- Full use of the Biologic Resource Center’s 14,000 kodachromes, numerous glass slides and DVD lectures on diseases of lab animal species

- Seminars on Primate Taxonomy, Mouse Nomenclature, Review of Equipment Used in Biomedical Research, Review of Legislature, Large Animal Cardiovascular Models and Alternatives, What’s Your Diagnosis; Mouse Pathology, and a Literature Review.

Program Director: JAMES E. ARTWOHL, DVM.
Biologic Resources Center, 1640 West Taylor Street, Chicago, Illinois
Phone: 312-996-1217
Email: jeart@uic.edu
For complete information on this course, please visit the Davis Foundation website at: http://www.cl.davis.org/courses/upcoming.html
2014 Descriptive Veterinary Pathology Course

Univ. of Illinois College of Vet Med
16-20 June 2014

Lectures include:

- Descriptive Techniques in:
  - Gross Pathology
  - Microscopic Pathology
  - Cytology
  - Electron Microscopy
  - Immunohistochemistry
- Review of Clinical Pathology
- Gross-Microscopic Correlations
- 6 Practical Examinations
  - Gross Exams
  - Histo Exams
  - 4 exams are faculty-graded for extra feedback

For more information, including tuition, venue, and hotel information, please visit http://www.cldavis.org/courses/upcoming.html

Program Director:
Dr. Bruce Williams, DVM, DACVP
Joint Pathology Center
301-467-4024
Email: Williams@cldavis.org

This course meets the requirements for 36 hours of continuing education credit in jurisdictions which recognize AAVSB’s RACE approval; however, participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Call Dr. James Britt, 501-907-2435, for further information.
WNPRC Lab Animal Medicine and Pathology Seminar
with International Mock ACLAM Exam*

Sponsored by C.L. Davis DVM Foundation
Hosted by Wisconsin National Primate Research Center
Thursday, April 3rd and Friday, April 4th 2014
Madison, WI

Lecture topics include:
Non-Human Primates, Mice, “Other Rodents”
USDA, OLAW, and GLP regulations
Occupational Health & Safety, BMBL
AVMA Panel on Euthanasia
(complete program available at registration link)

*Exam is the International Mock Exam Coalition Examination

Registration at http://www.cldavis.org/courses/upcoming.html

Program Directors: Andres Mejia DVM, MS, DACLAM, amejia@primate.wisc.edu and Christina Cruzen DVM, DACLAM, ccruzen@ucdavis.edu

This course has been submitted (but not yet approved) for 12 hours of continuing education credits.
41st Annual Gross Pathology Review Course

Presented by the Charles Louis Davis, DVM Foundation
14-18 July 2014  Michigan State University, East Lansing, MI

Come join us at one of the most renowned pathology courses in the world - all species, all systems, and international experts presenting 36 hours of great CME. Each year, this in-depth course draws over 120 pathologists, lab animal practitioners, veterinary clinicians, and students from around the world. Don't miss out in 2014!

Course Director:
Bruce Williams, DVM, DACVP
Email: Williams@clldavis.org

For more information, visit:
http://www.clldavis.org/courses/upcoming.html

*This course has been submitted, but not yet approved, for 36 hours of continuing education credits in jurisdictions which recognize ABVP/RACCE approval; however, participants should be aware that some boards have limitations on the number of hours assigned in certain categories, and/or restrictions on certain methods of delivery of continuing education. Call (510) 242-6794 for further information.*
2014 Northeast Veterinary Pathology Conference

Date: April 26-27, 2014
Location: Cape Cod, Massachusetts

You are cordially invited to attend and participate in the Northeast Veterinary Pathology Conference (sponsored by the C.L. Davis Foundation and co-sponsored by IDEXX Labs, Inc.) at the Sheraton Hotel in Eastham, MA.

Our guest speaker is Dr. Keith Mansfield, Director of Discovery and Investigative Pathology at Novartis Institute for Biomedical Research, who will speak on infectious diseases of non-human primates.

As we do every year, participants are invited to present cases they find interesting. Clinical pathologists are encouraged to choose a challenging clinical chemistry case to present.

TUITION: $95 includes both days and dinner; extra dinner guests are an additional $35.

For more information, including case presentation form, registration materials, and menu choices, visit:
http://www.cldavis.org/journalgiving/2014 Northeast Veterinary Pathology Conference or contact Course Director Dr. Lois Roth-Johnson at drrothjohnson@idealboarded.com

This program has been submitted (but not yet approved) for 8 hours of continuing education credit in jurisdictions which recognize AAVSB RACE approval, however participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Call Dr. James Britt, 501-912-1449, for further information.
PATHOLOGY OF THE SKELETAL SYSTEM
PATHOLOGY OF THE ENDOCRINE SYSTEM
SCHMALLENBURG VIRUS/MORBILLIVIRUS IN EUROPE

For more info, visit: http://www.cldavis.courses/upcoming.html
or contact Conference Organizer, Simon Priestnall at spriestnall@rvc.ac.uk

Given in concert with the combined 2014 ESVP/ECVP/ESTP in Berlin – 28-31 August 2014
Pathology training opportunities at the Annual Meeting of AAVLD
October 14-21 2014, Kansas City, Missouri

The American Association of Veterinary Diagnosticians (AAVLD) is a world leader in advancing the discipline of veterinary diagnostic laboratory science to promote global animal health and One Health. Residents and graduate and veterinary students are invited to attend and participate in the multiple pathology training opportunities during the AAVLD annual meeting, including:

* Practical evaluation of gross pathology images (3 hours)
* CL Davis Foundation Seminar on diagnostic pathology topics (8 hours)
* Histology slide seminar (4 hours)
* Pathology Scientific Sessions (8 hours)
* Scientific Seminars in the areas of Virology, Bacteriology, Immunology, Toxicology and Epidemiology

**Additional benefits for trainees:**
* Travel Awards of $1500.00 to attend the meeting and present a scientific paper
* ACVP/AAVLD Travel Award of $1000.00 to present a scientific paper at the following years ACVP meeting
* Reduced Registration Rate ($125.00)

More information will soon be available at: http://www.aavld.org/
Toxicologic pathologists work in diverse settings studying changes elicited by pharmacological, chemical, and environmental agents, and factors that modify these responses. This work involves the integration of pathology data into hazard identification, risk assessment, and risk communication frameworks that guide safety decisions for potentially toxic substances. A central part of this process is the translation of pathologic effects in animal models to address specific issues in public health.

This symposium will focus on translational science and the relevance of toxicologic pathology to human health. Topics will include the predictive value of nonclinical models and how animal model and human endpoints inform each other. Progress in the development of new nonclinical animal models and other types of models will be discussed, highlighting areas where models are highly predictive of human endpoints and areas where alternative models are needed. Emerging technologies which have the potential to improve translational capabilities will also be presented, with an emphasis on advancements that will impact regulatory decision making in coming years. As the field of epigenetics is rapidly advancing, the role and utility of epigenetic endpoints in toxicologic pathology and their relevance to human health will be addressed. Environmental toxicologic pathology plays a critical role in understanding health impacts of environmental exposures, therefore, how pathology outcomes inform human health assessments and regulatory decisions will be discussed. Finally, as the incidence of comorbidities in the human population increases, there is a greater need to develop translational models that provide useful information on human populations with comorbidities; the challenges of developing such relevant animal models will be addressed. By the end of this symposium, the audience will have a better understanding of current trends and data needs in translational pathology and how the field of toxicologic pathology can leverage expertise and tools to meet these needs.

**Monday**

**Session 1: Toxicity Concordance from Animals to Humans: How Predictive are Traditional Preclinical Studies of Adverse Effects or Toxicities in Clinical Studies?**

Co-Chairs: Jeff Engelhardt, DVM, PhD, DACVP, FIATP (EPL, Inc.); Danielle Emelstat, DVM, PhD, DACVP (GlaxoSmithKline); and Sabine Francke, DVM, PhD, FIATP (US FDA/CFSAN)

**Session 2: Progress in Preclinical Testing for Translational Science**

Co-Chairs: Glenn H. Canton, DVM, PhD, DACVP (Bristol-Myers Squibb Company); Jerrold M. Ward, DVM, PhD, DACVP, FIATP (Global Vet Pathology); and Cory Brayton, DVM, DAACLAM, DACVP (John Hopkins University School of Medicine)

**Tuesday**

**Session 3: Emerging Technologies**

Co-Chairs: Eric Blomme, DVM, PhD, DACVP (AbbVie, Inc.) and Gary Boorman, DVM, PhD, DACVP, FIATP (Covance Laboratories, Inc.)

**Session 4: The Role of the Toxicologic Pathologist in Informing Regulatory Decisions and Guiding the Interpretation and Application of Data from New Technologies and Tools**

Co-Chairs: Shashi Amur, PhD (US FDA/CDER) and Douglas C. Wolf, DVM, PhD, FIATP, ATIP (US EPA)

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**Wednesday**

**Session 5: Epigenetic Endpoints in Toxicologic Pathology and Relevance to Human Health**

Co-Chairs: Jim Hartke, DVM, PhD, DACVP (CoGeneX Corporation) and Mark Hoenerhoff, DVM, PhD, DACVP (NIH/ES)

**Session 6: Environmental Toxicologic Pathology and Prediction of Human Health Risks**

Co-Chairs: Charles Wood, DVM, PhD, DACVP (US EPA); Wanda Hasche-Ulrich, BVSc, PhD, DACVP, DAABT, FIATP (University of Illinois); and David Malatsky, DVM, PhD, DACVP (NIH/ES)

**Thursday**

**Session 7: The Challenges of Safety Evaluation in Populations with Concurrent Disease**

Co-Chairs: LuAnn McKinney, DVM, DACVP (US FDA/CDER/OND/DNP) and John E. Sagartz, DVM, PhD, DACVP (Seventh Wave Laboratories)

Visit www.toxpath.org for additional details on sessions, continuing education courses, and special events.

**Pre-meeting NTP Satellite Symposium—Saturday, June 21**

**Continuing Education Courses—Sunday, June 22**

*US Government employees may register (by June 1) to attend Tuesday, June 24 sessions at no charge.*
For the ninth year, Dr. Judy St. Leger of Sea World will host a full-day seminar combining didactic lectures, case presentations, and audience interaction to cover what's new and exciting in pathology of sea creatures. This year's keynote speaker, Dr. Kerrie Rose of the Taronga Conservation Society Australia, will present a keynote lecture on "Pathology of Marine Species Down Under".

A tuition of only $125 includes continental breakfast, refreshments, syllabus and a DVD of the case slides for review.

For more info, visit:
http://www.cldavis.org/courses/upcoming.html
STP is offering the second course in the Modular Education Series, which will focus on Reproductive System Pathology, April 6-9, 2014 at the Chauncey Conference Center in Princeton, NJ. The course is planned in partnership with the British Society of Toxicological Pathology (BSTP).

The BSTP has offered a Modular Education Series for many years offering two to three courses a year focusing on specific organ systems. In bringing these modular courses to the United States, the STP will offer the same opportunities to pathologists who might not otherwise be able to attend those offered by the BSTP.

This course will include both didactic lectures and practical data and slide review sessions. Microscopic evaluation of histologic sections will be done using whole-slide digital pathology images and practical evaluation/interpretation of toxicologic pathology data will be emphasized.

Course Details and Registration

Society of Toxicologic Pathology Headquarters
1821 Michael Faraday Drive, Suite 300
Reston, VA 20190
(703) 438-7508
Fax: (703) 438-3113
stp@toxpath.org

The 2014 edition of the STP-C.L. Davis National Capital Region Symposium will occur 23 APR 14th at Medimmune, in Bethesda MD. The theme of this year’s meeting is “Toxicology 21 and the 21st Century Toxicologic Pathologist”.

More information will be available shortly through the STP and C.L. Davis websites.
ARTICLES NEEDED:
Please Submit Articles Following Your Courses or Workshops

NEWSLETTER DEADLINES
All materials must be received no later than the 15th of the previous month in order to be included in the newsletter.

Articles should be submitted as MS Word documents. Photos should be submitted as a JPEG.

Any advertisements or registration material for symposia or courses should be submitted at least 3-4 months in advance.

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.

CALENDAR OF UPCOMING EVENTS

Feb 2014
2/5-7: Mouse Models of Disease: Using pathologic techniques to enhance phenotyping outcomes, Cambridge UK

Apr 2014
4/3-4: 2014 WNRC Lab Animal Medicine and Pathology Seminar, Madison, WI
4/23-26: Workshop and Symposium on Lab Animal Diseases, Chicago, IL
4/26-27: Northeast Veterinary Pathology Conference

June 2014
6/15-19: 22nd Annual Descriptive Veterinary Pathology Course, Champaign, IL

July 2014
7/14-18 41st Annual Gross Pathology Review Course, East Lansing, MI

Aug 2014
8/25-27 2014 European Division Meeting – Berlin, Germany