1st Annual WNPRC Lab Animal Medicine and Path Symposium a Huge Success

The organizers of the inaugural Wisconsin National Primate Research Center (WNPRC) Lab Animal Medicine & Pathology Symposium were excited to welcome more than 60 attendees with participants from every corner of the US as well as international representation from Italy, Singapore and Canada. The attendees included veterinarians from academia and industry, individuals preparing for ACLAM and ACVP Board examinations, ACLAM and ACVP diplomates, and veterinary students.

One year ago, Dr. Andres Mejia offered a mock ACLAM exam at the WNPRC for the first time. After that exam, Drs. Christina Cruzen and Andres Mejia decided that offering a seminar in conjunction with the exam may allow Midwesterners an opportunity for local CE and board preparation. Their goal became two-fold: focus on their area of expertise (primates) and target additional topics that were not covered by some of the other preparation courses. The idea grew and flourished, and with the help of volunteer presenters and the Foundation, there was an extraordinary result.

The line-up of expert speakers included Brett Saladino, Saverio “Buddy” Capuano, Alissa Emmerich, Jennifer Coonen, Calvin Patten Jr, Ashley Wathen, and Christina Cruzen. Andres Mejia coordinated the International Mock Exam Coalition Examination and review session. Lecture topics were targeted toward lab animal veterinarians and pathologists and included: a regulatory overview (including AWA, The Guide, and GLP), the AVMA panel on euthanasia, occupational health and safety, and primate taxonomy, pathology, and diseases. Attendees also had the opportunity to hear from recent and non-recent ACLAM diplomates as they shared their experiences and thoughts on how to cover the vast material and successfully approach the ACLAM board examination.

On Friday night the attendees enjoyed some well-deserved relaxation and some delicious Midwestern beers. The seminar

(continued on page 2)
place at the University of Wisconsin Union South Building (http://www.union.wisc.edu/visit-unionsouth.htm). The seminar location was excellent and conveniently included on-site hotel, conference rooms, restaurants, a café, bars, a bowling alley, an art gallery, a movie theater and several quiet study areas. It also offered convenient access to the WNPRC, and several attendees took advantage of behind-the-scenes tours of the facility. Others enjoyed other local attractions - including international restaurants, scenic bike paths, microbreweries, and the beautiful University of Wisconsin Campus.

The program directors extend a huge thank you to Charles River Laboratories, Intuitive Biosciences, Edstrom and Suburban Surgical Company for their financial support. Additionally, the C.L. Davis Foundation and the WNPRC were essential for the organization and success of this event.

The excellent reviews from the attendees about this inaugural event demonstrate how the WNPRC is at the vanguard of lab animal medicine and pathology education and service. The program directors are excited to continue this commitment to excellence and have already begun to plan the 2nd Annual WNPRC Lab Animal Medicine & Pathology Symposium in 2014.

Got Pictures of a Foundation Meeting?

We’d love them for the newsletter! Attending a meeting, using a publication, spending time in a Foundation study center anywhere in the world – it all makes the newsletter a more interesting read and shows how much we are doing around the world.

Please send any digital images to Foundation newsletter to info@cldavis.org and thanks!!!

Save the Date:

16 November 2013 – 11th Annual CLD/ACVP Diagnostic Workshop – “A Day with Brian Wilcock”- expect ophthalmic pathology, dermatopathology, and a few surprises from this pathology raconteur.
2013 Descriptive Veterinary Pathology Course

Auburn Univ. College of Veterinary Medicine - 3-7 June 2013

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@cl Davis.org

This course meets the requirements for 40 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.
40th Annual Gross Morbid Anatomy of Animals

Presented by the Charles Louis Davis, DVM Foundation
8-12 July 2013  University of Minnesota, Saint Paul, MN

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 2012!

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

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

"This course has been submitted but not yet approved for 36 hours of continuing education credit in jurisdictions which recognize AAPVPR RACE approval; however, participants should be aware that some boards have restrictions on the number of hours accepted in certain categories and or restrictions on certain methods of delivery of continuing education. Call John J. Birk, DVM at 305-507-5191 for further information."
23rd Annual Southcentral Division Meeting
Galveston, Texas
October 4 – 5, 2013

Join us at the beautiful San Luis Conference Center on sunny Galveston Island!
Accomodations next door at the Holiday Inn Resort on the Beach

• Guest Lecture by Dr. Fabio del Piero
  “Indirect immunohistochemistry for the study of the pathogenesis and the diagnosis of infectious diseases”

• Anatomic, clinical pathology and lab animal case reports welcome

• Going digital this year, need only submit two slides and electronic write-ups

Visit: http://www.cldavis.org/courses/upcoming.html • Course director: Dr. James Britt (501) 907-2435; jbritt@alpc.ar.gov

“This course has been submitted (but not yet approved) for 10 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.”
2013 CURRENT LAB ANIMAL SCIENCE SEMINAR

2013 PATHOLOGY OF LAB ANIMALS COURSE

WALTER REED ARMY INSTITUTE OF RESEARCH - 3-9 August 2013

Pathology of all Major Lab Species • Social Enrichment of Primates • Pathology of Laboratory Fish • DoD & VA Grant Systems • Pathology of Mini-Pigs • The Ag Guide • Pathology of the “Irrelevant Rodents” • USDA and AALAC • Lab Animal Pathology Mock Gross Exam • and Much, Much More!

Visit: http://www.cldavis.org/courses/upcoming.html

Tuition: CLASS only $350
POLA only $475
Combined CLASS/POLA - $700

***Uniformed Vets or Furloughed Gov’t vets get a $150 discount!!!***

This course has been submitted (but not yet approved) for 36 hours of continuing education credit in jurisdictions which recognize AAVSE 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 Biale, 501-507-3436, for further information.
C.L. DAVIS
EUROPEAN DIVISION
PATHOLOGY SYMPOSIUM
London, UK
3-5 Sep ‘13

CARDIORESPIRATORY PATHOLOGY OF THE HORSE
BONE MARROW INTERPRETATION – EQUINE ENDOMETRIAL BIOPSY

For more info, visit http://www.cldavis.courses/upcoming.html
For more info: Course Director, sean Callanan, at sean.callanan@ucd.ie
Latin Comparative Pathology Group
The Latin Subdivision of the CL Davis Foundation
Diagnostic Exercise

Case #: 28 Month. January Year. 2013

Contributor: Francisco Uzal, California Animal Health and Food Safety Laboratory, San Bernardino, UCDavis

History: Neurological disease and increased mortality was observed in three houses of 6-week-old layer pullets. No gross lesions were observed during necropsy.

Morphologic diagnosis: Cerebellum, leukoencephalomalacia, focally extensive, with thrombosis, hemorrhage, and mild mononuclear perivascular cuffing.

Possible cause/s: Vitamin E deficiency, sodium toxicity.

(answer on page 13)
7th C.L. Davis Argentine Division Meeting

November 26 and 27, 2013

Facultad de Ciencias Veterinarias,
Universidad Nacional de La Plata.

Featured Speakers:
Margaret Miller, DVM, PhD, DACVP
“Diseases of Dogs and Cats”
“Teaching Veterinary Pathology”

José Ramos-Vara, DVM, PhD
“Immunohistochemistry”

For more info, visit:
http://www.cldavis.org/courses/upcoming.html
Society of Toxicologic Pathology

STP Modular Education Series Inaugural Course: Neuropathology

July 21-24, 2013
Chauncey Conference Center
One Chauncey Road
Princeton, NJ 08541

Course Objective
The Society of Toxicologic Pathology (STP) is offering the inaugural course in the Modular Education Series which will focus on Neuropathology. The first course is planned in partnership with the British Society of Toxicological Pathology (BSTP) and with help from the STP Special Interest Group in Neuropathology (SIGN).

Course Description
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 these same opportunities to pathologists who might not otherwise be able to attend those offered by the BSTP. These courses will include both didactic lectures and practical sessions and slide review sessions. Microscopic evaluation of histologic sections will be done using whole-slide digital pathology images and practical evaluations of toxicologic pathology data will be emphasized.

Who Should Attend
The modular courses are designed primarily for novice practitioners of toxicologic pathology. However, pathology residents with an interest in this specialty or experienced pathologists who desire a refresher course are welcome. In addition, non-pathologists with an interest in the normal histology, pathology or toxicology of the nervous system will also benefit from this module.

Location and Lodging
The modular course will be held in central New Jersey very close to Princeton University at the Chauncey Conference Center, Princeton, New Jersey. This facility is easy to drive to from the US Eastern Mid-Atlantic Region and has abundant parking. Attendees who need to fly to this event are encouraged to use the Newark-Liberty Airport. Princeton is readily accessible from the airport via either Shuttle Service (Olympic Air) or the New Jersey Transit Train System (part of the NJ Transit Corridor) to the Princeton Junction train station. A shuttle from the train station to/from the conference center is readily available by calling the Chauncey Conference Center. The Philadelphia airport is also within a reasonable drive of the facility; however, public transportation is not directly available between this airport and Princeton.

When registering for this event, a carpool request will be made available and conference organizers will put attendees in contact who are interested in this option. Once at the event, there will be no requirement for transportation. The lodging, dining, and course location are all immediately adjacent to each other. Exercise and outdoor recreation facilities are also readily available to all attendees.

Faculty
Mark T. Butt, DVM, DACVP, Toxic Path Specialists
Ken Schaefer, DVM, PhD, DACVP, Vet Path Services
Carrie Markgraf, MD, PhD, Merck & Co. Ltd.
Alok Sharma, BVSc, MVSc, MS, PhD, DACVP, DABT, Corvus Laboratories, Inc.
Jim Morrison, DVM, DACVP, Charles River Laboratories, Pathology Associates
Robert II. Garman, DVM, DACVP, Consultant in Veterinary Pathology
Ingrid D. Pardo, DVM, MS, DACVP, Pfizer, Inc.

Course Registration (includes lodging, meals, and materials)

<table>
<thead>
<tr>
<th>Early Registration (through April 20)</th>
<th>Regular Registration (April 21–July 21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STP Member (Single lodging)</td>
<td>$1,200 $1,450</td>
</tr>
<tr>
<td>STP Member (Double lodging)</td>
<td>$1,080 $1,330</td>
</tr>
<tr>
<td>STP Nonmember (Single lodging)</td>
<td>$1,425 $1,675</td>
</tr>
<tr>
<td>STP Nonmember (Double lodging)</td>
<td>$1,305 $1,555</td>
</tr>
<tr>
<td>Student Member* (Double lodging)</td>
<td>$700 $950</td>
</tr>
</tbody>
</table>

The course registration fee is all-inclusive of lodging, meals, and course material. The meals will begin with a reception on Sunday evening, July 21, 2013 and conclude with lunch on Wednesday, July 24, 2013. Registration is limited. To ensure attendance of the course, early registration is encouraged.

The early registration deadline is April 20, 2013.

Online registration is available at www.toxpath.org.

*A letter of verification from a department chair must accompany student registration.

Continuing Education
This program has been submitted (but not yet approved) for 21 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.

Cancellation Policy
If you must cancel your registration, a written request must be received by STP Headquarters no later than June 1, 2013. The registration fee will be refunded less a $50 processing fee. No refunds will be issued after June 1, 2013. STP reserves the right to cancel the course if necessary. In the event of a course cancellation, all registrants will receive a full refund.

Visit www.toxpath.org for more details.
# Society of Toxicologic Pathology

**STP Modular Education Series Inaugural Course: Neuropathology**

## Tentative Schedule:

<table>
<thead>
<tr>
<th>Sunday, July 21</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 PM–5:30 PM</td>
<td>Arrival and Check-in</td>
</tr>
<tr>
<td>5:30 PM–7:00 PM</td>
<td>Welcome Reception BBQ</td>
</tr>
<tr>
<td>7:00 PM–8:00 PM</td>
<td>Dr. Robert H. Garman: Introductory Lecture</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monday, July 22</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM–8:00 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>8:00 AM–12:00 Noon</td>
<td>Dr. Robert H. Garman: Brain Histology, Special Stains, Artefacts, Neurochemistry, and Selected Lesions in the Cranial and Caudal Brain</td>
</tr>
<tr>
<td>12:00 Noon–1:00 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 PM–3:00 PM</td>
<td>Dr. Ingrid D. Pardeo: Patterns of Neurotoxicity Part I: Non-Proliferative Lesions</td>
</tr>
<tr>
<td>3:00 PM–5:00 PM</td>
<td>Dr. Jim Morrison: CNS/PNS Proliferative Lesions in Rodents</td>
</tr>
<tr>
<td>5:00 PM–7:30 PM</td>
<td>Recreation Time and Dinner</td>
</tr>
<tr>
<td>7:30 PM–9:00 PM</td>
<td>Monday Evening Small Group Review and Work Session</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tuesday, July 23</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM–8:00 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>8:00 AM–11:00 AM</td>
<td>Dr. Abak Sharma: Patterns of Neurotoxicity Part II: Non-Proliferative Lesions</td>
</tr>
<tr>
<td>11:00 AM–12:00 Noon</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:00 Noon–1:00 PM</td>
<td>Dr. Ingrid D. Pardeo: Brain Sampling and Processing Protocols in Preclinical Species</td>
</tr>
<tr>
<td>1:00 PM–4:00 PM</td>
<td>Dr. Ken Schaefer: Ocular Toxicity and Otopathy in Large Animals</td>
</tr>
<tr>
<td>4:00 PM–5:00 PM</td>
<td>Dr. Carrie Markgraf: Neurotoxicity Safety Pharmacology Studies</td>
</tr>
<tr>
<td>5:00 PM–7:30 PM</td>
<td>Recreation Time and Dinner</td>
</tr>
<tr>
<td>7:30 PM–9:00 PM</td>
<td>Tuesday Evening Small Group Review and Work Session</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wednesday, July 24</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM–8:00 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>8:00 AM–12:00 Noon</td>
<td>Dr. Mark T. Hutt: Evaluation of the Adult Nervous System, Evaluation of Intrathecal Drugs, Clinical Neurology, Functional Observation Battery, and Regulatory Guidelines for Neural Active Drugs</td>
</tr>
<tr>
<td>12:00 Noon–1:00 PM</td>
<td>Lunch and Room Checkout</td>
</tr>
<tr>
<td>1:00 PM–3:00 PM</td>
<td>Final Review and Attendee Feedback Session</td>
</tr>
</tbody>
</table>

## Questions and Special Accommodations

For any questions please contact STP Headquarters at stp@toxpath.org, or the Course Organizing Committee at:

- **Director:** Kevin Keane  
  kevin.keane@mac.com  
  973-919-1785
- **Co-Director:** Bhavan Singh  
  sbhavan@its.jnj.com  
  215-628-5344

If you have any special needs or special dietary requirements, please inform the STP modular course organizing committee at least 14 working days in advance of the event.

*Additional course details and online registration are available by visiting [www.toxpath.org](http://www.toxpath.org).*

[Visit www.toxpath.org for more details.](http://www.toxpath.org)
1er SEMINARIO INTERNACIONAL
PATOLOGÍA Y DIAGNÓSTICO
DE LAS ENFERMEDADES MÁS FRECUENTES
EN ANIMALES DE PRODUCCIÓN
DEL 22 AL 26 DE JULIO
DEL 2013, UNIVERSIDAD CENTRAL DEL ESTE
SAN PEDRO DE MACORÍS

COORDINADORES
ELPIDIO G. CHAMIZO, DVM, PhD, DRCS.
CECILIA FONSECA, DMV, PhD.
LIC. YOLANDA ACTA
LIC. LEIKO ORTIZ

AUSPICIO POR:

Mas Información:
Vicerrectoría de Estudios de Graduados y Educación Continuada
Tel: 809-529-3562 Ext. 446-346 / facebook@educacion-continua-uce / E-mail: educacioncontinua@uce.edu.do
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

| June 2013: |  
| 6/3-8: 2013 U.S. Descriptive Veterinary Pathology Course, Auburn, AL |  
| 6/16-20: 2013 Society of Toxicologic Pathology 32nd Annual Symposium, Portland, OR |  
| July 2013: |  
| 7/8-12: 2013 Gross Pathology Review Course, Univ. of Minnesota, St. Paul, MN |  
| 7/21-7/24 STP Modular Workshop: Neuropathology |  
| 7/22-26 1st Animal Meeting on diseases of Production Animals, San Pedro de Macoris, Dominican Republic |  
| Aug 2013 |  
| 8/3-9: Current Lab Animal Science Seminar/Pathology of Lab Animals Course, WRAIR, Silver Spring, MD |  
| Sept 2013 |  
| 9/2-4: 2013 European Division Meeting, London UK |  
| Nov 2013 |  
| 11/16: 11th Annual ACVP/CLD Workshop: A Day with Brian Wilcock |  

Answer to this month’s Diagnostic Exercise:

Comments: This is one of 5, 6-week old layer pullets with a history of being weak, lame and uncoordinated. There was increased mortality in the house. Histology revealed severe encephalomalacia with thrombosis (similar to what is depicted in the photos of this Diagnostic Exercise) in 4 out of 5 birds examined. Although there was an inflammatory component, it was minor and believed to be consequence of degenerative changes and not a primary response. The two top differential etiologies considered in this case were vitamin E deficiency and sodium toxicity.

Vitamin E in the liver was very low in 3 birds tested (0.40 to 0.45 ppm; reference range: 3-15 ppm), confirming vitamin E deficiency. In addition, the sodium in the brain of the same 3 birds was also high (2400-2500 ppm; reference range: 905-1120). Sodium concentrations can be high with excessive sodium intake or water deprivation. While sodium intoxication may also produce encephalomalacia, thrombosis is not a feature. Furthermore, it is possible that the high sodium levels in the brain of these birds were a consequence of dehydration in recumbent animals that were not able to drink. Unfortunately, the feed was not available for sodium analysis and we cannot rule out that an excess of sodium was also present in the diet.

Although the clinical signs and histological lesions are typical of vitamin E deficiency, it is also possible that vitamin E deficiency and sodium toxicity acted synergistically to produce the clinical signs and lesions observed.