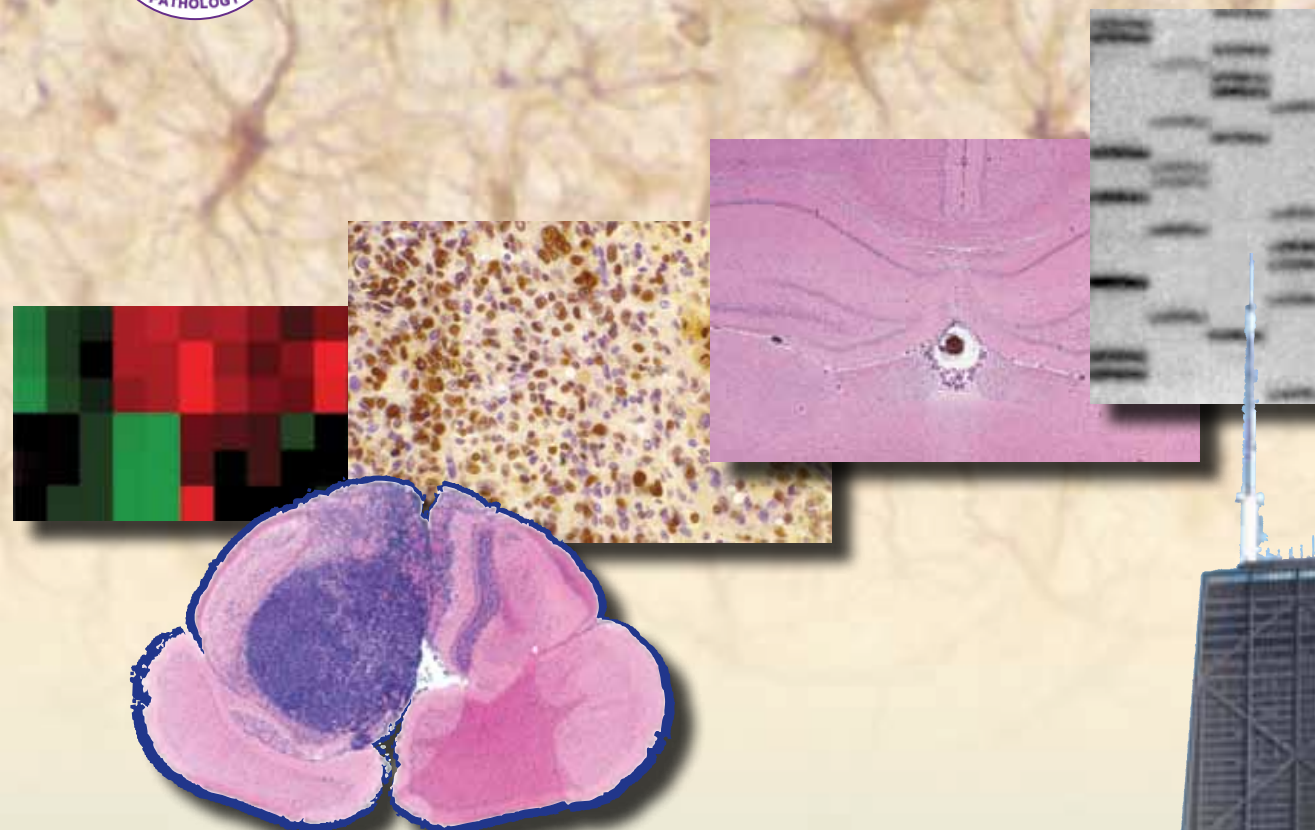




# STP/IFSTP 2010 Joint Symposium



# Neuropathology

## CHICAGO

June 20–24, 2010

Chicago Marriott Downtown  
Magnificent Mile

**Abstract  
Submission**

Deadline is  
April 1, 2010

[www.toxpath.org](http://www.toxpath.org)



# STP/IFSTP 2010 Joint Symposium

Chicago, June 20–24, 2010

## Neuropathology

### General Information



## Annual Meeting Overview

### Saturday, June 19, 2010

9:00 AM–4:30 PM **NTP Satellite Symposium Pathology Potpourri**

### Sunday, June 20, 2010

7:30 AM–6:00 PM **3rd ACVP/STP Coalition Scientific Conference**

#### CE 1

8:00 AM–12:00 NOON **Non-Invasive Imaging As a Problem Solving Tool and Translational Biomarker Strategy in Toxicologic Pathology**  
Chicago Ballroom

8:00 AM–12:00 NOON **Career Development Workshop: Managing Your Career in a Changing Environment**

#### CE 2

1:30 PM–5:30 PM **Hemostasis**  
Chicago Ballroom

#### CE 3

1:30 PM–5:00 PM **Developmental Neurotoxicity Testing**  
Chicago Ballroom

5:30 PM–7:00 PM **Welcome Reception**  
Grand Ballroom

### Monday, June 21, 2010

7:00 AM–8:00 AM **Continental Breakfast**

7:00 AM–11:00 AM **Exhibits and Poster Sessions Open**  
Grand Ballroom

12:00 NOON–4:30 PM **Exhibits and Poster Sessions Open**  
Grand Ballroom

12:30 PM–1:30 PM **Career Development Lunchtime Series: The Value of a Research Degree to a Career as a Toxicologic Pathologist: The Debate Continues**

#### Scientific Sessions

8:00 AM–8:05 AM **Welcome**  
Chicago Ballroom

8:05 AM–9:00 AM **Keynote: Perspective on the Past and Future Trends in Neuropathology**  
*Peter Spencer, PhD, FRCPath, CROET-OHSU, Portland, OR*  
Grand Ballroom

9:00 AM–12:00 NOON **Session 1: Fundamentals in Neurobiology**  
Chicago Ballroom

10:00 AM–10:30 AM **Break**  
Grand Ballroom

12:00 NOON–1:30 PM **Exhibitor Sponsored Lunch for Registered Attendees**  
Grand Ballroom

1:30 PM–5:00 PM

**Session 2: Modern Pathology Methods for Neural Investigations**  
Chicago Ballroom

2:40 PM–3:10 PM

**Break**  
Grand Ballroom

5:30 PM–6:30 PM

**Town Hall Meeting: International Perspectives on Peer Review**  
Chicago Ballroom

### Tuesday, June 22, 2010

7:00 AM–8:00 AM **Continental Breakfast**  
Grand Ballroom

7:00 AM–12:15 PM **Exhibits and Poster Sessions Open**  
Grand Ballroom

8:00 AM–11:55 AM **Session 3: Gene Expression, Biomarkers, and Glial Cells in Nervous System Diseases**  
Chicago Ballroom

9:45 AM–10:15 AM **Break**  
Grand Ballroom

Tuesday Afternoon

**FREE TIME**

### Wednesday, June 23, 2010

7:00 AM–8:00 AM **Continental Breakfast**

7:00 AM–1:00 PM **Exhibits and Poster Sessions Open**  
Grand Ballroom

8:00 AM–12:00 NOON **Session 4: Neurooncology**  
Chicago Ballroom

9:50 AM–10:20 AM **Break**  
Grand Ballroom

12:00 NOON–1:30 PM **Lunch Break**

12:00 NOON–1:30 PM **IFSTP Panel Discussion on Global Practices and Challenges in Training Toxicologic Pathologists**

1:30 PM–5:00 PM **Session 5: Animal Models for Neural Disease**  
Chicago Ballroom

3:05 PM–3:30 PM **Break**  
Chicago Ballroom Foyer

5:30 PM–5:50 PM **Awards Ceremony**  
Chicago Ballroom

5:50 PM–6:30 PM **Annual Business Meeting**  
Chicago Ballroom

7:00 PM–9:00 PM **President's Reception**

### Thursday June 24, 2010

7:00 AM–8:00 AM **Continental Breakfast**

8:00 AM–12:00 NOON **Session 6: Special Neuropathology Problems**

10:10 AM–10:40 AM **Break**  
Chicago Ballroom Foyer

12:00 NOON **Meeting Adjourned**



# General Information

## Neuropathology

### General Information



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# STP/IFSTP 2010 Joint Symposium

Chicago, June 20–24, 2010

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Dear Colleagues and Guests,

It is a pleasure to invite you to attend the STP/IFSTP 2010 Joint Symposium, which will be held June 20–24, 2010, at the Chicago Marriott Downtown Magnificent Mile Hotel. “Neuropathology” is the theme for the symposium, which will also be the 29<sup>th</sup> Annual Meeting of the Society of Toxicologic Pathology. The 2010 Program Co-Chairs, Robert C. Sills, Kathleen A. Funk, Brad Bolon, and the Program Committee have planned an exceptional week of sessions relating to one of the fastest growing areas of toxicologic inquiry.

You are also invited to attend the pre-meeting NTP Satellite Symposium, “Pathology Potpourri” (Susan Elmore, Chair), which will be held all day Saturday, June 19. STP and IFSTP will sponsor three optional continuing education courses on Sunday, June 20 (Kevin Keane, CE Course Chair). “Pathology Imaging” will be offered in the morning. “Hemostasis” and “Developmental Neurotoxicity Testing” will be offered concurrently in the afternoon. You are also encouraged to attend a Panel Discussion hosted by IFSTP during the Wednesday lunch break on “Current Practices and National/Regional Needs for Educating/Training Toxicologic Pathologists.”

An expanded Exhibit Hall has been planned this year for companies offering products and services related to the field of toxicologic pathology. On Monday, the exhibitors will sponsor a complimentary buffet lunch in the hall for all symposium attendees.

June is the perfect time to experience Chicago’s beautiful parks and lakefront, its remarkable architecture, world-class museums, Magnificent Mile shopping, and its legendary blues scene. The Chicago Marriott Downtown Magnificent Mile Hotel is ideally located on Michigan Avenue within walking distance of great restaurants and most attractions as well as the “L” (short for elevated) train system. Tuesday will be a free afternoon to give attendees an opportunity to explore Chicago. We encourage you to take a few minutes to visit the *Preliminary Program* (pdf) and the Annual Meeting Web site at [www.toxpath.org/AM2010](http://www.toxpath.org/AM2010), which will provide up-to-date details about the program, additional events, and hotels.

Our planners have arranged a room block at the Chicago Marriott Downtown Magnificent Mile Hotel and we encourage you to make early hotel reservations via the link at [www.toxpath.org/AM2010](http://www.toxpath.org/AM2010) to ensure availability and to receive the special rate. You can register for the meeting on-line at [www.toxpath.org/AM2010](http://www.toxpath.org/AM2010) or return the mail/fax form. We welcome your participation and encourage you to make early plans to attend.

See you in “The Windy City!”

Sincerely,

Peter Mann, DVM, DACVP  
STP President

Johannes Harleman, PhD  
IFSTP President



# STP/IFSTP 2010 Joint Symposium

Chicago, June 20–24, 2010

## Neuropathology

### General Information



## STP/IFSTP 2010 Joint Symposium Neuropathology

**Symposium Co-Chairs:** Robert C. Sills, DVM, PhD, DACVP, National Institute of Environmental Health Sciences, Kathleen A. Funk, DVM, PhD, DACVP, EPL, Inc., and Brad Bolon, DVM, MS, PhD, DACVP, DABT, FIATP, GEMpath, Inc.

The Society of Toxicologic Pathology (STP) in conjunction with the International Federation of Societies of Toxicologic Pathologists (IFSTP) will co-host a symposium on the fundamentals and recent innovations in the field of toxicologic neuropathology. The focus of this international meeting is to correlate advances in the morphologic evaluation and interpretation of neuropathology findings with functional, cellular and molecular knowledge in a series of plenary and poster sessions.

The major goal of the meeting is to foster an open framework in which to discuss the current state of knowledge of neuropathology evaluations in conventional toxicology and specialized neurotoxicology studies. Foundational sessions will include fundamentals of neurobiology, modern pathology methods for neural investigations, and an interactive panel discussion on “best practices” for brain sampling. The meeting will also provide a unique forum to review the remarkable progress in gene expression, biomarkers, and the role of different glial cell populations in nervous system diseases. A “special problem” session will be dedicated to critical but less understood areas of neuropathology such as the blood-brain barrier, synaptic pathology, and exaggerated pharmacodynamics as a neurotoxic event.

Neuropathology is one of the fastest growing areas of toxicologic inquiry and regulatory concern, and this congress promises to be a fantastic opportunity to review and expand your knowledge of this important field. We hope you will join us for this exciting program in Chicago.

### NTP Satellite Symposium

#### Pathology Potpourri

**Saturday, June 19**

(9:00 AM–4:30 PM)

Free Event; registration required

**Chair:** Susan A. Elmore, MS, DVM, DACVP, National Institute of Environmental Health Services, Research Triangle Park, NC

The traditional NTP Satellite Symposium, entitled Pathology Potpourri, in advance of the symposium will also include presentations on proposed INHAND neuropathology nomenclature. For more information on the NTP Satellite Symposium, see page 10.

#### Continuing Education Courses Sunday, June 20, 2010

Additional fee to attend. Three half day courses are offered. (See page 10 for more details.)

Three continuing education sessions—on non-invasive imaging in general toxicity and drug development programs, hemostasis, and current regulatory and scientific opinion in developmental neurotoxicity testing—as well as a half-day Career Development seminar will be held on the Sunday before the general sessions begin.

#### Career Development Workshop

Sunday, June 20, 2010

8:00 AM–12:00 NOON

(Free Event, registration required)

#### Managing Your Career in a Changing Environment

*Presented by the STP Career Outreach and Continuing Education Committees*

The workshop will provide interactive sessions covering the challenges of managing one’s career as a toxicologic pathologist in changing economic and scientific environments. Specifically we plan to address how the economic environment, particularly in the pharmaceutical industry, is likely to shape future opportunities and how the changes in the science and practice of pathology and drug development influence the performance expectations for a toxicologic pathologist. After this brief introduction, the discussion will focus on how to anticipate and react to change, particularly those changes that require changing employers. In those segments of the workshop, speakers will lead discussion on how to stay current scientifically, and, should conditions require that you seek new employment, how to define yourself so that your resume will be noticed and how to negotiate leaving a position. Speakers will also discuss how to deal with the mechanics of life (applying for unemployment, arranging for health insurance) should termination become inevitable. During these discussions, speakers will be expected to engage the audience to provide specific examples of how they have dealt with these issues.



# General Information

## Neuropathology

# CHICAGO

June 20–24, 2010



### Career Development Lunchtime Series

Monday, June 21, 2010

12:30 PM–1:30 PM

(Free, registration required)

#### The Value of a Research Degree to a Career as a Toxicologic Pathologist: The Debate Continues

Panelists and audience members will discuss this issue from a variety of angles, including topics such as:

- Cost vs. reward in obtaining an additional advanced degree
- Relevance of research to different toxicologic pathology careers
- Are there skills you learn during grad school that you can't get any other way?
- And many more!

### Internet Café

Be sure to take advantage of the computers in STP's Exhibit Hall! The Internet Café will be available during Exhibit Hall hours so that you can check e-mail.

### Exhibit Space Available

The Exhibitor Showcase at the STP/IFSTP 2010 Joint Symposium offers an unmatched opportunity for vendors to reach a targeted audience. More than 600 scientists and industry professionals come together to exchange ideas and present groundbreaking research findings in toxicologic pathology. The limited number of available booths guarantees that exhibitors will not get lost in a crowd of competitors.

To enhance the impact of the exhibits, the scientific poster sessions will be held in the Exhibit Hall, along with the refreshment breaks. An internet café will be available in the Exhibit Hall where attendees can check e-mail during exhibit hours.

Lunch will be provided to all registered attendees in the Exhibit Hall on Monday afternoon.

The Society values the support of exhibitors and believes the relationship between exhibiting companies and the STP membership is a mutually beneficial one. STP provides a wide array of benefits and services to exhibiting companies including two complimentary full conference registrations, company listing and exhibit location published in the Society's Annual Meeting Program, four complimentary category listings, highly visible signage acknowledging all exhibitors, and more.

Please visit [www.toxpath.org/AM2010](http://www.toxpath.org/AM2010) to view the on-line Exhibitor Information.

Questions? Please contact **Maureen Kettering**, Meeting and Exhibits Planner, 703-438-7508.

### Exhibit Installation Dates

Saturday, June 19 .....	1:00 PM–4:00 PM
Sunday, June 20 .....	8:00 AM–3:00 PM

all exhibits must be set up by 3:00 PM

### Exhibit Hall Hours

Sunday, June 20 .....	5:30 PM–7:00 PM
Monday, June 21 .....	7:00 AM–11:00 AM
	12:00 NOON–4:30 PM
Tuesday, June 22 .....	7:00 AM–12:15 PM
Wednesday, June 23 .....	7:00 AM–1:00 PM

**Exhibitor Tear Down**

Wednesday, June 23 .....	1:00 PM–5:00 PM
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### Meeting Events

#### Welcome Reception

The STP/IFSTP Symposium will kick off with a reception in the Exhibit Hall on Sunday evening from 5:30 PM–7:00 PM. The reception will feature cash bar, sodas, and snacks sponsored by STP/IFSTP. This event is also available as a sponsor opportunity for one or multiple companies.

#### Student Outing

You are cordially invited to the Society of Toxicologic Pathology Student/Trainee Outing on Tuesday afternoon, June 22, 2010.

This is a chance to meet fellow students, and interact with scientists representing all facets of the Society as you discuss your future and the various career paths available to you. The STP will be designating members to act as mentors for each student who attends, so this will be a great opportunity for one-on-one discussions, as well as for networking with your STP colleagues. Lunch will be provided. This function has been the highlight of past meeting for many students.

Details will be e-mailed to student registrants as they are finalized.

#### President's Reception

The President's Reception will be held on Wednesday evening, June 23, from 7:00 PM–9:00 PM. One ticket to this event is provided to Member, Non-Member, Exhibitor, and Student registrants as well as registered Spouse/Guests. Additional tickets can be purchased on-site. Attire will be casual.

#### IFSTP Panel Discussion—Global Practices and Challenges in Training Toxicologic Pathologists

The International Federation of Societies of Toxicologic Pathologists (IFSTP) will present a panel discussion from 12:00 NOON–1:30 PM Wednesday, June 23. There is no fee to attend. An optional box lunch may be purchased in advance on the registration form (or by contacting [stp@toxpath.org](mailto:stp@toxpath.org) if you have already registered).



# General Information

## Neuropathology

# CHICAGO

June 20–24, 2010



### 3rd ACVP/STP Coalition Scientific Conference

The Coalition for Veterinary Pathology Fellows is a joint educational initiative between the American College of Veterinary Pathologists (ACVP) and the Society of Toxicologic Pathology (STP) to establish new positions at North American universities to train veterinary pathologists. The Coalition will hold its 3rd Scientific Conference, Sunday, June 20th, during the STP/IFSTP 2010 Joint Symposium. This Conference will focus on the progress of Coalition Fellows and will include platform presentations by 14 currently enrolled Fellows, featuring case reports, diagnostic investigations and results of PhD dissertation research. In addition, representatives of academia and industry will give a presentation on an issue of mutual interest and importance to pathology trainees. This will be an all day scientific program (8:00 AM–5:00 PM), preceded by continental breakfast (7:30 AM), and including lunch (12:00 NOON–1:00 PM) and a cocktail reception (5:00 PM–6:00 PM). Coalition participants (Fellows, academic and industrial mentors, and representatives of sponsoring companies) as well as non-participants are invited to attend the Conference at no additional cost. You must register to attend, and non-participants must pay an additional fee if they also wish to attend the breakfast, lunch, and cocktail reception.

### Monday Luncheon in the Exhibit Hall

An exhibitor sponsored buffet luncheon will be offered for all attendees on Monday June 21 from 12:00 NOON to 1:30 PM. Plenty of seating has been arranged in the newly renovated hall.

### Town Hall Meeting

The Town Hall meeting will be held from 5:30 PM–6:30 PM Monday, June 21. The topic for this year is International Perspectives on Peer Review.

### Awards Ceremony/Annual Business Meeting

The Awards Ceremony will take place on Wednesday evening, June 23 at 5:30 PM. Student award winners and outgoing Committee chairs will be recognized at this time. The Annual Business Meeting will be held immediately following the Awards Ceremony.

### Registration

#### Registration Desk Hours

Friday, June 18	4:00 PM–6:00 PM
Saturday, June 19	8:00 AM–6:00 PM
Sunday, June 20	7:00 AM–6:00 PM
Monday, June 21	7:00 AM–5:30 PM
Tuesday, June 22	7:30 AM–12:00 NOON
Wednesday, June 23	7:30 AM–5:30 PM
Thursday, June 24	7:30 AM–12:00 NOON

#### Download Abstracts, Attendee List from STP Web site



The following information will be available on-line Prior to the meeting:

- Abstracts
- Attendee List
- Final Program (Print format also available at the Annual Meeting.)

Please visit [www.toxpath.org/AM2010/materials.asp](http://www.toxpath.org/AM2010/materials.asp)

Continuing Education books and CD ROMs (CE 1 through 3) will be printed and available in each designated course room.

### Registration Materials

Badges, event tickets (and ribbons if appropriate) will not be mailed this year. All registered attendees may pick up their badges and other meeting materials at the registration desk (see registration hours above).

### Poster Information

The deadline for abstract submission is April 1, 2010. In order to be considered for a poster presentation you must submit your abstract on-line by this date.

The poster board size in 4 x 8 Feet (Horizontal) and requires the use of pushpins to hold it in place.

#### Poster set up and tear down times are as follows:

##### Poster Set Up

Sunday, June 20 ..... 8:00 AM–3:00 PM

Your poster must be set up by 3:00 PM on Sunday, June 20, 2010.

##### Poster Tear Down

Wednesday, June 23 ..... 1:00 PM–5:00 PM

If your poster is not removed before 5:00 PM on Wednesday, June 23 it will be discarded.

Poster presentation times will be sent out via e-mail once the abstract system is closed.



# STP/IFSTP 2010 Joint Symposium

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#### Hotel Information

##### Chicago Marriott Downtown Magnificent Mile

(Headquarters Hotel)

The Chicago Marriott Downtown Magnificent Mile in Chicago, Illinois will be the headquarters hotel of the Annual Symposium, "Neuropathology" of the STP/IFSTP June 20–24, 2010. Situated on Michigan Avenue's Magnificent Mile among shopping, restaurants, and entertainment, the hotel is within walking distance to the Windy City's top attractions, including Navy Pier, American Girl Place, Shedd Aquarium, Millennium Park, Theater and Museum Districts.

##### Internet Access

High speed Internet is available in each room for \$14.95 per night. An Internet Café will also be provided in the Exhibit Hall during exhibit hours.

##### Chicago Marriott Downtown Magnificent Mile

540 North Michigan Avenue  
(Driveway Entrance on 541 North Rush Street)  
Chicago, Illinois 60611

**Hotel Reservations:** 800-266-9493

**Hotel Direct:** 312-836-0100

**Fax:** 312-836-6139

##### On-Line Hotel Reservations

[https://resweb.passkey.com/Resweb.do?mode=welcome\\_ei\\_new&eventID=1454836](https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=1454836)

To receive STP/IFSTP meeting rates be sure to use the On-Line Reservation link above. If you reserve by phone be sure to mention that you are with the STP/IFSTP 2010 Joint Symposium.

**Government employees** may either use the on-line reservation link or call the hotel reservation phone number above to receive the government room rate. (A limited number is available.)

**Note: You are encouraged to make hotel reservations as soon as possible to ensure availability in the headquarters hotel (even though Marriott Hotel deadline is May 27, 2010.)**

Rates: The daily total is \$269 for a single or double room. Hotel's room rates are subject to applicable state and local taxes (currently 15.4%) in effect at the time of check-in.

Single:	\$269
Double:	\$269
Triple:	\$289
Quad:	\$309

PLEASE VISIT THE STP WEB SITE  
For up-to-date hotel information at  
<http://www.toxpath.org/am2010/hotel.asp>.

#### Chicago Attractions



*Cloud Gate Sculpture in Millennium Park*

June is the perfect time to experience Chicago's beautiful parks and lakefront, its remarkable architecture, world-class museums, Michigan Avenue shopping, and its legendary blues scene. The Chicago Marriott Downtown Magnificent Mile, located on Michigan Avenue and Rush Street, gives you easy access to all the popular attractions. A train stop is located just 2 blocks from the Marriott on Grand and State Streets. This is part of Chicago's network of buses and trains called the "L" (for elevated). Tuesday will be a free afternoon for attendees this year to allow you to spend time exploring this great and very walkable city.

The hotel is just four blocks from the **Chicago River**, where the Chicago Architecture Foundation launches its amazing **90-minute boat tours along the river**. This tour spotlights more than 50 architecturally significant sites where you will discover a new perspective on the city and learn about the development of the skyscraper. You can get a spectacular view of the city and the lake from the **John Hancock Center**, which is 8 blocks north of the hotel on Michigan Avenue.

**Navy Pier** is six blocks away on Illinois Street and **Lake Michigan**. This is a great place for a morning jog, a wonderful place to catch a boat cruise, or a concert, or to ride the giant ferris wheel. The **Chicago Children's Museum** is located on the Navy Pier.

**Millennium Park** is just eight blocks South of the Marriott on Michigan Avenue. The **Bean**, the polished steel structure that fascinates park visitors with its reflection of them along with Chicago's skyline, is located here. Another attraction in the park, where kids love to play, is a wading fountain surrounded by 50 ft. glass towers featuring faces of famous Chicagoans.

The **Art Institute of Chicago**, which houses the country's top collection of Impressionist and Postimpressionist art, is in the block beyond Millennium Park on Michigan Avenue.

*continued on page 6*





# STP/IFSTP 2010 Joint Symposium

Chicago, June 20-24, 2010

## Neuropathology

### General Information



Chicago Marriott Downtown Magnificent Mile





# STP/IFSTP 2010 Joint Symposium

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## Neuropathology

### General Information



*continued from page 4*

Other popular museums—the **Field Museum of Natural History**, the **Museum of Science and Industry**, the **Shedd Aquarium**, and are a short bus or taxi ride from the hotel.

Be sure to experience some of Chicago's culinary wonders while you are in town. **Deep-dish pizza**, **hot dogs**, and **Italian beef sandwiches** are Chicago specialties you won't want to miss. The restaurant List starts on page 8.

Web sites with detailed information about Chicago:

- [The Chicago Convention and Tourism Bureau](#)
- [City of Chicago](#)

#### Architecture River Cruise

STP will offer the popular Chicago Architecture Cruise on Tuesday afternoon (June 22), which is a free afternoon for attendees. This narrated 90-minute boat cruise will spotlight more than 50 significant buildings along the Chicago River. The tour will begin at 1:30 PM at Michigan Avenue and Wacker, which is four blocks from the Marriott. You can register for the tour (\$30) when you register for the meeting. If you have already registered for the meeting, please send an e-mail to [stp@toxpath.org](mailto:stp@toxpath.org) and indicate your interest in adding this session. The tour will be included with no fee for spouse/guest registrants who register by April 10, and on a space-available basis after that date.

#### Temperature/Attire

The average summer temperature in Chicago is 80° F (25° C). Casual, comfortable attire is appropriate. Please bring sweater or light jacket for the air-conditioned meeting rooms.

#### Taxes & Tipping

The State of Illinois has a statewide general sales tax rate of 9%. Hotel accommodation taxes are 15.4%. A .25% tax rate applies for restaurants and take out. A 15–20% tip is customary in restaurants if not already included in the bill.

#### Time Zone

Chicago is on Central Daylight Time in the summer.

#### Travel Information



*Millennium Park*

#### Non U.S. Citizens

Please visit <http://travel.state.gov> for current information about request documentation for travel to the U.S. Citizens of some countries will require a visa. Citizens of the 27 Visa Waiver Program countries may only require a machine-readable passport (if certain requirements listed on the above Web site are met).

#### Air, Car, Ground Transportation

##### Airports

##### Chicago O'Hare International Airport (ORD)

**Cab**—approximately one hour or less to the Marriott Magnificent Mile (\$40)

**Elevated Train/Subway**—approximately one hour from Marriott Downtown Magnificent Mile. Take blue line from airport, transfer to red, get off at Grand Ave. and State street (Red Line) and walk 2 blocks to the hotel. (\$2.25)

##### Midway Airport (MDW)

**Cab**—approximately 40 minutes (\$30)

**Elevated Train/Subway**—approximately one hour from the Marriott Downtown Magnificent Mile. Take orange line from airport, transfer to red, get off at Grand Ave. and State street (Red Line) and walk 2 blocks to the hotel. (\$2.25)

Train Station

##### Union Station (Amtrak & Metra) (1.9 miles SW)

Use the CTA's Blue Line to travel to and from the airport, avoiding traffic. Metra and other regional train and bus information may be obtained by going to [www.rta.com](http://www.rta.com)—the Web site for the Chicago Area Regional Transportation Authority.



# STP/IFSTP 2010 Joint Symposium

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## Neuropathology



### General Information

#### Shuttle Buses

**GO Airport Express:** Offers daily, door-to-door service to/from O'Hare Airport and most hotels including the Marriott. Their hours of operation are from 4:00 AM to 11:30 PM, departing approximately every 10 to 15 minutes outside the baggage claim areas of the Lower Level of the Domestic and International Terminals. The fare to the city is \$29 per person from O'Hare (\$22) from Midway. Lift-equipped vehicles are available on request for passengers with disabilities. Advanced notice is strongly urged.

To contact GO Airport Express, call 888-247-1200 or 888-284-3826 or go to the [Airport Express Web site](#).

#### Rental Car

Rental car agencies are located on the lower level near the baggage claim areas of Terminals 1, 2, and 3. Please look for signs and courtesy phones. From Terminal 5, rental car agencies are available by courtesy telephones located on the lower level. Many rental car agencies also offer courtesy buses to various automobile pick-up/drop-off areas. During the FACE construction project, please look for signs which may indicate a temporary relocation of the rental car areas or courtesy phones.

#### Ground Transportation

**Bus and Subway**—Chicago Transit Authority's (CTA) bus and elevated/subway train lines, including the famous "L", will transport you around town and to major attractions.

Visit the CTA site for more information on their routes: [www.transitchicago.com](http://www.transitchicago.com)

**Taxi**—Taxis are readily available in the city to get and you also have the option to board one of the water taxis which run along the Chicago River or lakeshore for a scenic alternative.

#### Questions?

Please Contact STP Headquarters at 703-438-7508

#### Career Development

Krystle Correll..... Ext. 1436  
E-Mail: [kcurrell@toxpath.org](mailto:kcurrell@toxpath.org)

#### Continuing Education

Krystle Correll..... Ext. 1436  
E-Mail: [kcurrell@toxpath.org](mailto:kcurrell@toxpath.org)

#### Exhibits

Maureen Kettering ..... Ext. 1443  
E-Mail: [mkettering@toxpath.org](mailto:mkettering@toxpath.org)

#### Meeting Rooms/Housing

Maureen Kettering ..... Ext. 1443  
E-Mail: [mkettering@toxpath.org](mailto:mkettering@toxpath.org)

#### Membership

Tierre Miller..... Ext. 1451  
E-Mail: [stp@toxpath.org](mailto:stp@toxpath.org)

#### Registration

Tierre Miller..... Ext. 1451  
E-Mail: [stp@toxpath.org](mailto:stp@toxpath.org)

#### Scientific Program

Krystle Correll..... Ext. 1436  
E-Mail: [kcurrell@toxpath.org](mailto:kcurrell@toxpath.org)

#### Sponsorship Opportunities

Sue Pitsch..... Ext. 1442  
E-Mail: [spitsch@toxpath.org](mailto:spitsch@toxpath.org)

#### Student Travel Awards and Young Investigator Awards

Krystle Correll..... Ext. 1436  
E-Mail: [kcurrell@toxpath.org](mailto:kcurrell@toxpath.org)



# STP/IFSTP 2010 Joint Symposium

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### General Information

#### Restaurants

\$ = under \$10    \$\$ = \$11–\$30    \$\$\$ = \$31–\$60    \$\$\$\$ = \$60 and above

*Within walking distance (0–5 blocks) from the Hotel*

437 Rush	\$\$\$	Steak	437 Rush	312-222-0101	2 blocks
Bandera	\$\$	American	535 N. Michigan	312-644-3524	2 blocks
Bella Bacino	\$\$	Pizza	75 E. Wacker	312-263-2350	5 blocks
Ben Pao	\$\$	Chinese	52 W. Illinois	312-222-1888	5 blocks
Bice	\$\$\$	Italian	158 E. Ontario	312-664-1474	2 blocks
Big Bowl	\$\$	Asian	60 E. Ohio	312-951-1888	2 blocks
Billy Goat	\$	Burgers	430 N. Lower Michigan	312-222-1525	2 blocks
Blackies	\$\$	Burgers	164 E. Grand	312-938-8700	1/2 block
Brazzaz	\$\$\$	Brazilian	539 N. Dearborn	312-595-9000	4 blocks
Buca di Beppo	\$\$	Italian	521 N. Rush	312-396-0001	2 blocks
California Pizza Kitchen	\$\$	American	52 E. Ohio	312-642-8450	2 blocks
Capital Grill	\$\$\$\$	Steak	633 N. St. Claire	312-337-9400	3 blocks
Chili's	\$\$	American	2 E. Ontario	312-943-1510	5 blocks
Chipotle	\$	Mexican	6 W. Grand	312-828-0613	2 blocks
Cosi	\$	Sandwiches	57 E. Grand	312-321-1990	2 blocks
Dao	\$	Thai	230 E. Ohio	312-337-0000	2 blocks
Emilio's Tapas	\$\$	Tapas	215 E. Ohio	312-467-7177	2 blocks
ESPN Zone	\$\$	Sports Bar	43 E. Ohio	312-644-3776	2 blocks
Harvest Grill	\$\$	American	540 N. Michigan	312-836-0100	At Hotel
Heaven on Seven	\$\$	Cajun	601 N. Rush	312-280-7774	2 blocks
India House	\$\$	Indian	59 W. Grand	312-645-9500	4 blocks
Indian Garden	\$\$	Indian	247 E. Ontario	312-280-4910	4 blocks
Jimmy John's	\$	Sandwiches	55 E. Grand	312-329-1900	2 blocks
Joe's Stone Crab	\$\$\$\$	Seafood/Steak	60 E. Grand	312-379-8637	2 blocks
Lawry's	\$\$\$	Prime Rib	100 E. Ontario	312-787-5000	2 blocks
McCormick & Schmick's	\$\$\$	Seafood	1 E. Wacker	312-923-7226	5 blocks
Osteria Via Stato	\$\$\$	Italian	620 N. State	312-642-8450	5 blocks
Oysy	\$\$	Japanese	50 E. Grand	312-670-6750	2 blocks
Pizzeria Uno	\$\$	Italian	619 N. Wabash	312-321-1000	2 blocks
Pizzeria Due	\$\$	Pizza	619 W. Wabash	312-943-2400	3 blocks
P.F. Chang's	\$\$	Asian	530 N. Wabash	312-828-9977	2 blocks
Quartino's	\$\$	Tapas	626 N. State	312-698-8000	5 blocks
Rock Bottom	\$\$	Sports Bar	1 W. Grand	312-755-9339	2 blocks
Shaw's	\$\$\$	Seafood	21 E. Hubbard	312-527-2722	5 blocks
Star of Siam	\$\$	Thai	11 E. Illinois	312-670-0100	5 blocks
Su Casa	\$\$	Mexican	49 E. Ontario	312-943-4041	2 blocks

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# STP/IFSTP 2010 Joint Symposium

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## Neuropathology



### General Information

Texas de Brazil	\$\$\$	Brazilian	51 E. Ohio	312-670-1006	3 blocks
TGI Friday's	\$\$	American	153 E. Erie	312-664-9820	3 blocks
Tru	\$\$\$\$	French	676 N. St. Clair	312-202-0001	4 blocks
Volare	\$\$	Italian	201 E. Grand	312-410-9900	2 blocks
Vong's Thai Kitchen	\$\$	Thai	6 W. Hubbard	312-644-8664	5 blocks
Weber Grill	\$\$	American	Grand & State	312-467-9696	2 blocks
West Egg Café	\$\$	Breakfast	620 N. Fairbanks	312-280-8366	3 blocks

#### *Within 6–10 blocks from the Hotel*

Bennigan's	\$\$	American	225 N. Michigan	312-938-9080	6 blocks
Brasserie Jo	\$\$\$	French	59 W. Hubbard	312-595-0800	6 blocks
Catch 36	\$\$\$	Seafood	35 W. Wacker	312-346-3500	7 blocks
Crofton on Wells	\$\$\$	Contemporary	535 N. Wells	312-755-1790	7 blocks
Ditka's	\$\$\$	American	100 E. Chestnut	312-587-8989	9 blocks
Devon	\$\$\$	Seafood	39 E Chicago	312-440-8660	8 blocks
Fogo De Chao	\$\$\$	Brazilian	661 N. La Salle	312-932-9330	9 blocks
Frontera Grill/Topolobama	\$\$\$	Mexican	445 N. Clark	312-661-1434	7 blocks
Fulton's on the River	\$\$\$	Seafood	315 N. LaSalle	312-822-0100	10 blocks
Giordano's	\$\$	Pizza	730 N. Rush	312-951-0747	6 blocks
Gino's East	\$\$	Pizza	633 N. Wells	312-977-4200	9 blocks
Hard Rock Café	\$\$	American	63 W. Ontario	312-943-2252	6 blocks
Keefer's	\$\$\$	Steak	20 W. Kinzie	312-467-9525	6 blocks
La Madia	\$\$	Pizza	59 W. Grand	312-951-0747	6 blocks
Millenium Park Grill	\$\$	American	11 N. Michigan	312-521-7275	10 blocks
Rosebud	\$\$\$	Italian	720 N. Rush	312-266-6444	6 blocks
Ruth's Chris	\$\$\$	Steak	431 N. Dearborn	312-321-2725	6 blocks
Smith & Wollensky	\$\$\$	Steak	318 N. State	312-670-9900	7 blocks
Subway	\$	Sandwiches	535 N. Michigan	312-527-3978	7 blocks
Sullivan's Steakhouse	\$\$\$\$	Steak	415 N. Dearborn	312-527-3510	6 blocks
Zed 451	\$\$\$	Brazilian	739 N. Clark	312-266-6691	10 blocks

#### *Short cab ride (1–2 miles)*

Bistrot Zinc	\$\$	French	1131 N. State	312-337-1131	1.5 miles
Blue Agave	\$\$	Mexican	1 W. Maple	312-329-0030	1.4 miles
Café Iberico	\$\$	Tapas	739 N. LaSalle	312-573-1510	1 mile
Chicago Chop House	\$\$\$	Steak	400 N. Wells	312-822-0191	1 mile
Costa's	\$\$	Greek	340 S. Halsted	312-263-9700	2 miles
Ed Debevic's	\$\$	Diner	640 N. Wells	312-664-1707	1 mile
Everest	\$\$\$\$	Contemporary	440 S. LaSalle	312-663-8920	1.5 miles
Gene & Georgetti	\$\$\$	Steak	500 N. Franklin	312-527-3718	1.2 miles

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### General Information

Gibson's	\$\$\$	Steak	1028 N. Rush	312-266-8999	1.2 miles
Gioco	\$\$\$	Italian	1312 S. Wabash	312-396-0001	2 miles
Greek Islands	\$\$	Greek	200 S. Halsted	312-782-9855	2 miles
Japonais	\$\$\$	Japanese	600 W. Chicago	312-822-9600	1.8 miles
Karyn's Cooked	\$\$	Vegetarian	738 N. Wells	312-587-1050	1.1 miles
Kiki's Bistro	\$\$\$	French	900 N. Franklin	312-595-0800	1.5 miles
Lou Mitchell's	\$	Breakfast	565 W. Jackson	312-939-3111	2 miles
Marche	\$\$\$\$	French	833 W. Randolph	312-226-8399	1.8 miles
MK	\$\$\$\$	Contemporary	868 N. Franklin	312-482-0303	1.5 miles
Moto	\$\$\$\$	Contemporary	945 W. Fulton Market	312-491-0058	2 miles
Morton's	\$\$\$\$	Steak	1050 N. State	312-266-4820	1.2 miles
Naha	\$\$\$	Contemporary	500 N. Clark	312-321-6242	1 mile
Opera	\$\$\$	Chinese	1301 S. Wabash	312-461-0161	2 miles
Parthenon	\$\$	Greek	314 S. Halsted	312-726-2407	2 miles
Ra	\$\$	Japanese	1139 N. State	312-274-0011	1.3 miles
Red Light	\$\$\$	Chinese	820 W. Randolph	312-733-8880	1.5 miles
Riva	\$\$\$	Seafood	700 E. Grand	312-644-7482	1.1 miles
Salpicon	\$\$\$	Mexican	1252 N. Wells	312-988-7811	1.8 miles
Santorini	\$\$	Greek	800 W. Adams	312-829-8820	2 miles
Scoozi	\$\$	Italian	410 W. Huron	312-943-5900	1.5 miles
Spiaggia	\$\$\$\$	Italian	980 N. Michigan	312-280-2750	1 mile
Tempo	\$\$	Breakfast	1 E. Chestnut	312-943-7373	1 mile
Trattoria #10	\$\$\$	Italian	10 N. Dearborn	312-984-1718	1 mile
Tsunami	\$\$\$	Japanese	1160 N. Dearborn	312-642-9911	1.5 miles
Wildfire	\$\$\$	Steak	159 W. Erie	312-787-9000	1 mile
Zapatista	\$\$	Mexican	1307 S. Wabash	312-933-2077	1.9 miles





# STP/IFSTP 2010 Joint Symposium

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## Neuropathology

### Program



#### Saturday, June 19

##### NTP Satellite Symposium

9:00 AM–4:30 PM

*Free Event; registration required*

##### Pathology Potpourri

**Chair:** Susan A. Elmore, MS, DVM, DACVP, National Institute of Environmental Health Services, Research Triangle Park, NC

This interactive symposium on interpreting pathology slides is sponsored by NTP and has become a popular pre-meeting event for attendees. While it is free, registration is required due to space limitations.

The object of this interactive symposium is to provide continuing education on interpreting pathology slides, to generate lively and productive conversation, and to have a good time. This symposium will also include presentations on proposed INHAND neuropathology.

During each talk, the speakers will project a series of images of lesions on one screen with a choice of diagnoses/answers on a separate screen. The members of the audience with wireless keypads will then vote and the voting results will be displayed on the screen. After each voting session, time is allowed for discussion.

#### Sunday, June 20

##### Continuing Education Credits

AAVSB RACE Provider #56

The CE Courses have been submitted (but not yet approved) for 4 hours of Continuing Education credits (per course) 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. Twenty hours of classroom delivery credit is expected to be given for attendance at the scientific sessions. Certificates of attendance will be provided at the conclusion of each course and on Thursday for the scientific sessions.

#### Continuing Education Courses

##### CE 1 (Sunday AM) 8:00 AM–12:00 NOON

##### Non-Invasive Imaging As a Problem Solving Tool and Translational Biomarker Strategy in Toxicologic Pathology

**Co-Chairs:** Richard A. Peterson, DVM, PhD, DACVP, GlaxoSmithKline and Kathleen L. Gabrielson, DVM, PhD, DACVP, Johns Hopkins University School of Medicine

Non-invasive imaging technologies such as magnetic resonance, computed tomography, ultrasonography, and positron emission tomography are gaining acceptance as important modalities in toxicologic pathology. These non-invasive technologies allow non-terminal time course evaluation of functional and morphologic changes. These modalities can also be used as *in vivo* translational biomarkers between preclinical animal models and patients in the clinic. This continuing education session will give an overview of the technical modalities as well as pertinent examples of use of the technology to support drug development/discovery as well as animal model work.

8:00 AM–8:05 AM

##### Introduction

8:05 AM–8:45 AM

##### Theoretical Principles

*Kathleen L. Gabrielson, DVM, PhD, Johns Hopkins University, Baltimore, MD*

8:45 AM–9:25 AM

##### Application of Modern Imaging Technology to Safety Assessment

*G. Allan Johnson, PhD, Duke University Medical Center, Durham, NC*

9:25 AM–9:55 AM

##### Break

9:55 AM–10:35 AM

##### Translational Molecular Imaging for Oncology

*Martin Pomper, MD, PhD, Johns Hopkins University, Baltimore, MD*

10:35 AM–11:15 AM

##### Ultrasound Imaging in Drug Discovery: The Good, The Bad, and The Promising

*Robert W. Coatney, DVM, MS, PhD, GlaxoSmithKline, King of Prussia, PA*

11:15 AM–11:55 AM

##### Application of X-Ray Computed Tomography Imaging to Safety Toxicology

*Christopher Winkelman, DVM, PhD, Merck & Co., Inc., West Point, PA*

11:55 AM–12:00 NOON **Questions**



# STP/IFSTP 2010 Joint Symposium

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## Neuropathology

### Program



#### Career Development Workshop

Sunday, June 20, 2010  
8:00 AM–12:00 NOON

#### Managing Your Career in a Changing Environment

#### CE 2 (Sunday PM) 1:30 PM–5:30 PM

##### Hemostasis

**Co-Chairs:** Dale Baker, DVM, PhD, DACVP, DABT, Portola Pharmaceuticals, Inc. and Jacqueline Brassard, DVM, PhD, DACVP Allergan Inc.

Hemostasis abnormalities of either thrombosis or bleeding uncommonly occur during pharmaceutical drug development, but when they do they can be challenging to understand or circumvent either clinically or in rational chemical design. This continuing education session will review the evolving understanding of hemostasis and outline the key molecules that contribute to the finely regulated system. The course will then explore unexpected findings by displaying examples and discuss the approach to investigating the defect. Presenters will utilize examples of derangements and engage audience participation through polling and spontaneous comments to fully discuss the perturbations and possible explanations. Though examples will be from pharmaceutical drug development, the approach would effectively serve in any investigative initiative of an observed hemostatic disorder.

1:30 PM–1:35 PM

##### Introduction

1:35 PM–2:20 PM

##### Current Understanding of Hemostasis

*Marjory Brooks, DVM, Cornell University – College of Veterinary Medicine, Ithaca, NY*

2:20 PM–2:50 PM

##### Drug-Induced Immune Thrombocytopenia and Underlying Predispositions

*Jacqueline A. Brassard, DVM, PhD, Allergan, Inc., Irvine, CA*

2:50 PM–3:15 PM

##### Break

3:15 PM–4:00 PM

##### Intersection of Hemostasis and Inflammation

*Brunhilde Felding-Habermann, PhD, The Scripps Research Institute, La Jolla, CA*

4:00 PM–4:30 PM

##### Considerations When Evaluating Hemostasis in Various Animal Models and Laboratory Animal Species

*Marjory Brooks, DVM, Cornell University – College of Veterinary Medicine, Ithaca, NY*

4:30 PM–5:00 PM

##### CRO Clinical Pathologist Regarding Issues with Hemostasis in GLP Studies and Limitations/Problems

*Jeffrey McCartney, DVM, Charles River Laboratories, Senneville, QC, Canada*

5:00 PM–5:30 PM

##### Case Evaluation

*Dale Baker, DVM, PhD, Portola Pharmaceuticals, Inc. South San Francisco, CA*

#### CE 3 (Sunday PM) 1:30 PM–5:30 PM

##### Developmental Neurotoxicity Testing

**Co-Chairs:** Karl Jensen, PhD, U.S. EPA and Brad Bolon, DVM, MS, PhD, DACVP, DABT, FIATP, GEMpath, Inc.

Developmental Neurotoxicity Testing (DNT) Neuropathology is a cornerstone of DNT testing, yet current neuropathology methods used in DNT screening do not always adequately detect injury to the growing brain. This session will review current DNT neuropathology practices and explain innovative, more sensitive morphologic measurements that can be made *in vivo* and in embedded neural specimens using known examples of developmental neurotoxicity in animal models. The session will include a panel discussion of neuropathologists and regulators who routinely gather and interpret DNT neuropathology data to provide an update on current “best practices” in the field.

1:30 PM–1:35 PM

##### Introduction

1:35 PM–2:10 PM

##### Overview of the Role of Neuropathology and Morphometrics in Developmental Neurotoxicity Assessment

*Wolfgang Kaufmann, BASF AG, Ludwigshafen, Germany*

2:10 PM–2:45 PM

##### New Developments in the Application of Stereology to Developmental Neurotoxicity Assessment

*Hans Jorgen Gundersen, Stereology & Electron Microscopy Research Laboratory and MIND Center, University of Aarhus, Aarhus, Denmark*

2:45 PM–3:15 PM

##### Break

3:15 PM–3:50 PM

##### Magnetic Resonance Microscopy (MRM) of the Developing Brain

*G. Allan Johnson, PhD, Duke University Medical Center, Durham, NC*

3:50 PM–4:25 PM

##### Application of MRM to Defining Toxicant-Induced Abnormalities in the Developing Brain

*Kathy Sulik, PhD, University of North Carolina, Chapel Hill, NC*





# STP/IFSTP 2010 Joint Symposium

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## Neuropathology



### Program

4:25 PM–4:55 PM

#### Panel: A Regulatory Perspective on New Developments in Morphometric Approaches to Developmental Neurotoxicity Assessment

*Susan L. Makris, U.S. Environmental Protection Agency, Washington, DC, Robert H. Garman, DVM, Consultants in Veterinary Pathology, Murrysville, PA, Georg Krinke, MVD, CSc, Consultant, Frenkendorf, Switzerland, and Peter B. Little, DVM, PhD, DACVP, Charles River Laboratories PAI, Durham, NC*

4:55 PM–5:00 PM

#### Questions

5:30 PM–7:00 PM

#### Welcome Reception

### Monday, June 21

7:00 AM–11:00 AM

#### Exhibits and Poster Sessions Open

#### Scientific Sessions

**Co-Chairs:** Robert C. Sills, DVM, PhD, DACVP, National Institute of Environmental Health Sciences, Kathleen A. Funk, DVM, PhD, DACVP, EPL, Inc, and Brad Bolon, DVM, MS, PhD, DACVP, DABT, FIATP, GEMpath, Inc.

#### Monday Morning

8:00 AM–8:10 AM

#### Welcome

*Peter Mann, DVM, DACVP, STP President, EPL North West, Seattle, WA*

8:10 AM–9:00 AM

#### Keynote Address: Perspective on the Past and Future Trends in Neuropathology

*Peter Spencer, PhD, FRCPath, CROET-OHSU, Portland, OR*

#### Session 1

9:00 AM–12:00 NOON

#### Fundamentals in Neurobiology

**Co-Chairs:** William H. Jordan, DVM, PhD and D. Greg Hall, DVM, PhD, DACVP

This session will provide a foundation for subsequent sessions by presenting fundamentals of neuroanatomy and neurophysiology, and means of probing these parameters. The first lecture is designed to assure that all attendees have a grasp of fundamental neuroanatomy, both at the cellular and tissue level. Normal and altered neuronal and glial cytomorphology as encountered in histologic sections will be illustrated. The neuroanatomic landscape presented in standard coronal rodent brain histosections will be related to unique neurochemical and functional aspects within these regions, emphasizing the importance of including these neuroanatomic regions in

routine neurohistologic surveys. Basic approaches to behavioral evaluations will then be reviewed and the outcomes integrated with neuropathology to inform neurotoxicity testing. The final lecture will explore the correlation of electrophysiologic and morphologic measures of the onset, progression, and possible recovery of various types of neuropathy.

9:00 AM–9:05 AM

#### Introduction to Correlative Neurobiology

*D. Greg Hall, DVM, PhD, DACVP, Lilly Research Laboratories, Indianapolis, IN*

9:05 AM–10:00 AM

#### Overview of Neurocytology, Neurohistology, and Neurochemistry

*Robert H. Garman, DVM, DACVP, Consultants in Veterinary Pathology, Inc., Murrysville, PA*

10:00 AM–10:30 AM

#### Break

10:30 AM–11:15 AM

#### Functional Assays

*Virginia C. Moser, PhD, DABT, U.S. EPA, Research Triangle Park, NC*

11:15 AM–12:00 NOON

#### Electrophysiological Correlation to Structural Neuropathology

*Joseph C. Arezzo, PhD, Albert Einstein College of Medicine, Bronx, NY*

12:00 NOON–1:30 PM

#### Exhibitor Sponsored Lunch for Registered Attendees

Grand Ballroom

#### Monday Afternoon

12:00 NOON–4:30 PM

#### Exhibits and Poster Sessions Open

#### Career Development Lunchtime Series

Monday, June 21, 2010

12:30 PM–1:30 PM

(Free, registration required)

#### The Value of a Research Degree to a Career as a Toxicologic Pathologist: The Debate Continues



# STP/IFSTP 2010 Joint Symposium

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## Neuropathology



### Program

#### Session 2

1:30 PM–5:00 PM

#### Modern Pathology Methods for Neural Investigations

*Co-Chairs: Lydia L. Andrews-Jones, DVM, PhD, DACVP and Sarah L. Hale, DVM, DACVP*

What is the best method to prepare and adequately sample the nervous system for neurotoxicology evaluation? What neuroanatomic levels should be sampled? Which special stains and techniques strike the best balance between sensitivity of lesion detection and appropriate allocation of time and money? Perhaps more than any other organ system, accuracy of neuropathologic evaluation requires careful advance planning, experienced sample handling, appropriate sectioning, and careful selection of diagnostic techniques. This session will focus on processing, sectioning and staining of both the central and peripheral nervous systems in both routine and enhanced neuro-directed toxicology studies, and explore modern image analysis techniques and evolving regulatory trends as applied to such experiments.

1:30 PM–1:40 PM

#### Introduction

1:40 PM–2:10 PM

#### Preparation and Analysis of CNS

*William H. Jordan, DVM, PhD, Eli Lilly & Company, Greenfield, IN*

2:10 PM–2:40 PM

#### Preparation and Analysis of the PNS

*Bernard S. Jortner, VMD, MS, DACVP, VA–MD Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, VA*

2:40 PM–3:10 PM

#### Break

3:10 PM–3:40 PM

#### Morphometry and Stereology

*Rogely W. Boyce, DVM, PhD, WIL Research Labs, Ashland Ohio*

3:40 PM–4:10 PM

#### Enhanced Neuroanatomic Sampling

*Robert C. Switzer, III, MS, PhD, Neuroscience Associates, Knoxville, TN*

4:10 PM–5:00 PM

#### Panel Discussion: Brain Sampling

*Mark T. Butt, Robert G. Garman, Karl Jensen, William H. Jordan, Georg Krinke, Peter B. Little, Robert C. Switzer*

5:30 PM–6:30 PM

#### Town Hall Meeting: International Perspectives on Peer Review

### Tuesday, June 22

#### Tuesday Morning

7:00 AM–1:30 PM

**Exhibits and Poster Sessions Open**

#### Session 3

8:00 AM–11:55 AM

#### Gene Expression, Biomarkers, and Glial Cells in Nervous System Diseases

*Co-Chairs: Robert C. Sills, DVM, PhD, DACVP and Robert H. Garman, DVM, DACVP*

In this session, correlations between gene expression and neuropathologic endpoints will be discussed. Transcriptome analysis, as well as an evaluation of biomarkers of neural diseases, have the potential to play key roles in pre-clinical toxicology in the near future. Such approaches are particularly important in neurodegenerative conditions since there may be only minimal degrees of cellular reaction to neuron loss within the CNS, and the timing of tissue sampling/necropsy may not be optimal to reveal acute morphologic endpoints of neural degeneration. The functions that various glial populations play in neuropathologic processes as well as innovative methods for probing their impact on neuronal homeostasis and toxicant-induced neuronal degeneration will be reviewed in depth.

8:00 AM–8:05 AM

#### Introduction

8:05 AM–8:55 AM

#### Correlation between Gene Expression and Neuropathology

*George H. Searfoss PhD, Eli Lilly and Company, Indianapolis, IN*

8:55 AM–9:45 AM

#### Biomarkers of Neural Disease

*Thomas J. Montine, MD, PhD, University of Washington, UW Medicine, Seattle, WA*

9:45 AM–10:15 AM

#### Break

10:15 AM–11:05 AM

#### Role of Microglial Cells in Nervous System Diseases

*Clayton A. Wiley, MD, PhD, University of Pittsburgh, School of Medicine, Pittsburgh, PA*

11:05 AM–11:55 AM

#### Role of Astrocytes in Nervous System Diseases

*Michael Aschner, PhD, Vanderbilt University Medical Center, Nashville, TN*

Tuesday Afternoon

**Free Time**



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## Neuropathology



### Program

#### Wednesday, June 23

##### Wednesday Morning

7:00 AM–1:00 PM

**Exhibits and Poster Sessions Open**

##### Session 4

**8:00 AM–12:00 NOON**

##### Neurooncology

*Co-Chairs: Alys E. Bradley, BSc, BVSc, MAnimSc, DipRCPath, FRIPH, MRCVS, FRCPath and Kevin Keane, DVM, PhD*

Primary tumors of the nervous system account for a small but persistent fraction of cancers, are disproportionately represented in juveniles, and are notoriously difficult to treat. This session will explore new ideas and techniques into the etiopathogenesis, diagnosis, and treatment of neural tumors with an emphasis on the translation of animal models and toxicology investigations to the human situation. Additionally, this session will cover current thinking on pharmaceutical discovery and safety assessment that are unique to this area of oncology.

8:00 AM–8:10 AM

**Introduction**

8:10 AM–9:00 AM

**Classification of Neural Tumors**

*Klaus Weber, DVM, PhD, Harlan Laboratories, Switzerland*

9:00 AM–9:50 AM

**Toxicologic Neuropathology Issues in Developing Drugs: Translating Preclinical Data to Clinical Trials for Brain Cancer**

*Jeffrey Raizer, MD, Northwestern University, Feinberg School of Medicine, Chicago, IL*

9:50 AM–10:20 AM

**Break**

10:20 AM–11:10 AM

**Potential Therapeutic Targets in Brain Cancer**

*Heidi Phillips, PhD, Genentech, San Francisco, CA*

11:10 AM–12:00 NOON

**Comparative Pathology of Brain Cancer in Animals and Humans**

*Eric Charles Holland, PhD, MD, Memorial Sloan Kettering Cancer Center, New York, NY*

12:00 NOON–1:30 PM

**Lunch Break**

12:00 NOON–1:30 PM

**IFSTP Panel Discussion on Global Practices and Challenges in Training Toxicologic Pathologists**

##### Wednesday Afternoon

##### Session 5

**1:30 PM–5:00 PM**

##### Animal Models for Neural Disease

*Co-Chairs: Thomas P. Brown, DVM, PhD and Ingrid D. R. Pardo, DVM, MS, DACVP*

Naturally occurring animal models and their inducible variants provided some of the first insights into the mechanisms behind disorders of protein aggregation or neurodegeneration with morphologic alterations. In contrast, neurologic disorders that lack morphologic changes often must be induced; however, this necessity frequently leads to questions as to how accurately these models mimic the natural disease. With greater analytic knowledge and the increasing flexibility of transgenic and gene targeting technologies, new models have been generated allowing the interrogation of phenomena that have not been approachable using older methodology. This session will provide updates on recent advances in this arena.

1:30 PM–1:35 PM

**Brief Introduction to Existing Animal Models for Neuropathology**

*Thomas P. Brown, DVM, PhD, Pfizer Inc., Groton, CT*

1:35 PM–2:05 PM

**Case Example—Pluses and Minuses of Animal Models for One Therapeutic Indication (Pain)**

*Gary Jay, MD, FA.A.P.M., D.A.A.P.M., Pfizer Inc., New London, CT*

2:05 PM–2:35 PM

**Animal Models for Alzheimers Disease**

*Ronald B. Demattos, PhD, Eli Lilly, Indianapolis, IN*

2:35 PM–3:05 PM

**Unmet Needs for Animal Models which Translate to Humans**

*Edward Weinstein, PhD, Sigma-Aldrich, St. Louis, MO*

3:05 PM–3:30 PM

**Break**

3:30 PM–4:15 PM

**Toxicant-Induced Neurodegeneration**

*Martin Philbert, PhD, University of Michigan, School of Public Health, Ann Arbor, MI*

4:15 PM–5:00 PM

**Animal Model Findings and the FDA: Requirements for Efficacy and Safety**

*Steve Jacobsen, PhD, Wyeth Research, Princeton, NJ*



# Program

# Neuropathology

## CHICAGO

June 20–24, 2010



### Awards Ceremony and Annual Business Meeting

#### 5:30 PM–6:30 PM

5:30 PM–5:50 PM

**Awards Ceremony**

5:50 PM–6:30 PM

**Annual Business Meeting**

7:00 PM–9:00 PM

**President's Reception**

## Thursday, June 24

### Thursday Morning

### Session 6

8:00 AM–12:00 NOON

#### Special Neuropathology Problems

*Co-Chairs: Georg J. Krinke, MVD<sup>r</sup>, C.Sc., FVH Path., Diplomate E.C.V.P and Peter B. Little, DVM, MS, PhD, DACVP*

Many questions in neuropathology arise when functional or structural lesions occur in non-neuronal and non-glial elements that are unfamiliar to non-specialists. This session will provide an integrated picture of classic and recent information addressing selected issues of this type. One talk will detail the structure and function of the blood-brain barrier (BBB) with particular focus on its role in the pathogenesis of neurotoxic disease, as well as strategies developed to overcome the BBB for drug delivery and their implications in neurotoxicology. Another talk will describe the pathology of the choroid plexus, the ependymal lining of the brain ventricles, and their relationship to cerebrospinal fluid (CSF) biology. A third presentation will review neural lesions resulting from exaggerated pharmacodynamic effects, using excitotoxicity to suggest a paradigm for addressing the problem of discriminating primary from secondary effects. Another lecture will deal with morphologic changes and interpretive issues associated with direct delivery of agents to the CNS. A final talk will examine neuropathology involving synaptic contacts between neurons or between neurons and their receptor/effector organs.

8:00 AM–8:10 AM

**Introduction**

8:10 AM–8:50 AM

**Blood-Brain Barrier**

*Colin Willis, PhD, University of Arizona College of Medicine, Tucson, AZ*

8:50 AM–9:30 AM

**Pathology of Choroid Plexus and Ventricular Lining Cells**

*Conrad E. Johanson, Warren Alpert Medical School at Brown University, Providence, RI*

9:30 AM–10:10 AM

**Direct Delivery/Neuromodulatory Implants**

*Mark T. Butt, DVM, DACVP, ToxPath Specialists, LLC, Hagerstown, MD*

10:10 AM–10:40 AM

**Break**

10:40 AM–11:20 AM

**Exaggerated Pharmacodynamics As a Neurotoxic Response**

*Alok K. Sharma, DVM, M.V.Sc., M.S., PhD, DACVP, Covance Laboratories Inc., Madison, WI*

11:20 AM–12:00 NOON

**Synaptic Pathology**

*Lee J. Martin, Johns Hopkins University School of Medicine, Baltimore, MD*



# Registration Information

## Neuropathology

**CHICAGO**  
June 20–24, 2010

### Symposium Registration Fees

Member and Non-Member regular full meeting registration fees include the symposium proceedings, access to scientific sessions, Exhibit Hall, daily continental breakfast, morning and afternoon coffee breaks during the scientific sessions, and admission for one to the President's Reception.

If you have previously registered for the meeting and would like to add a course, please contact **STP Headquarters** for processing. You may also mail or fax a registration form and indicate that you are adding a course.

### NTP Symposium

The Saturday NTP Satellite Symposium is free, but registration is required. Voting participation is available for 100 attendees. Voting machines are distributed to registered attendees at the start of the session on a first-come, first-serve basis.

### Career Development Course

This interactive workshop will feature speaker and participant discussions of challenging scenarios in Toxicologic Pathology and real life business case examples will be emphasized. This course is free to all participants, but registration is required.

### Continuing Education Courses Registration

A separate registration fee is charged to attend each of the Sunday Continuing Education course(s). One courses will be offered in the morning and two consecutive courses will be offered in the afternoon.

### Guest/Spouse Registration

The Guest/Spouse registration fee includes continental breakfast (Monday through Thursday) in the STP Guest Hospitality Suite at the Chicago Marriott Downtown Magnificent Mile, afternoon breaks, one admission to the President's Reception Wednesday evening. A Tuesday afternoon Architecture River Cruise is guaranteed for guest/spouses who register by April 10.

### Architecture River Cruise

A 90-minute Tuesday afternoon narrated boat tour is offered to attendees for a fee of \$30. After April 10 it will be offered on a space available bases.

### Student Registration

The Student Registration fee includes access to all sessions and exhibits, daily continental breakfast, admission for one to the Student Outing and the President's Reception. A letter of verification from a department chairman must accompany student registrations. Any student registration received with no verification letter will be processed at the higher Non-Member fee. Copies of student identification cards are not acceptable. Please see Student Travel Award information on page 19.

### 3<sup>rd</sup> ACVP/STP Coalition Scientific Conference

This will be an all day scientific program (8:00 AM–5:00 PM), preceded by continental breakfast (7:30 AM), and including lunch (12:00 NOON–1:00 PM) and a cocktail reception (5:00 PM–6:00 PM). Coalition participants (Fellows, academic and industrial mentors, and representatives of sponsoring companies) as well as non-participants are invited to attend the Conference at no additional cost. You must register to attend, and non-participants must pay an additional fee if they also wish to attend the breakfast, lunch, and cocktail reception.

### IFSTP Panel Discussion—Optional Box Lunch

Attending this discussion is Free. A box lunch may be purchased in advance for \$35.50. Please check the box lunch option when you register for the meeting. If you previously registered, please contact [stp@toxpath.org](mailto:stp@toxpath.org) to add the lunch.

### Exhibitor Registration

Two full meeting complimentary registrations are provided to exhibiting companies with the purchase of each booth. The Exhibitor Registration fee (\$350) is for companies with more than two exhibitors. This reduced registration does not include admission to the scientific sessions, but does include continental breakfasts, breaks in the Exhibit Hall, and one admission to the President's Reception.

### Registration Instructions

#### Register On-Line

Alternatively, registrants paying by check or those not utilizing the Internet may submit their Registration Form by fax or mail.

#### Please Mail or Fax Registration Form to:

STP Headquarters Registration  
P.O. Box 758960  
Baltimore, MD 21275-8960

#### Or fax Registration Form to: 703-438-3113

Forms will be date-stamped as they arrive. This is your date of registration.

**NOTE:** To prevent double-billing, if you are registering by fax, DO NOT mail your original registration form. STP needs only one copy for processing. All mailed and faxed registration forms will be processed on-line by STP staff.

### Cancellation Policy

If you must cancel your registration, all requests must be received in writing to STP Headquarters no later than May 10, 2010. The registration fee will be refunded less a \$25 processing fee. Refunds after May 10, 2010, will not be processed.



**STP/IFSTP 2010 Joint Symposium**  
**June 20–24, 2010 • Chicago Marriott Downtown Magnificent Mile**  
**MEETING REGISTRATION FORM**

To Register  
 On-Line:  
[www.toxpath.org](http://www.toxpath.org)

Member ID: \_\_\_\_\_ First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Title: \_\_\_\_\_ Department: \_\_\_\_\_

Affiliation/Agency/Institution: \_\_\_\_\_

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

City: \_\_\_\_\_ Prov/State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Do you require any Special Services? \_\_\_\_\_

**CONTINUING EDUCATION COURSES SELECTION**—Please check box(es) to indicate your selection(s)

**Saturday, June 19** 9:00 AM–4:30 PM  **NTP Satellite Symposium:** Pathology Potpourri (*free to meeting registrants—Wireless keypads [100] will be distributed at the door to registrants on a first come/first serve basis.*)

**Sunday, June 20** 8:00 AM–12:00 NOON  **CE1—Pathology Imaging**

1:30 PM–5:30 PM  **CE2—Hemostasis**  **CE3—Developmental Neurotoxicity Testing**

**CAREER DEVELOPMENT SESSIONS**—Free to meeting registrants

**Sunday, June 20**  Career Development Workshop—Managing Your Career in a Changing Environment (8:00 AM–12:00 NOON)

**Monday, June 21**  Lunchtime Series—The Value of a Research Degree to a Career as a Toxicologic Pathologist (12:30 PM–1:30 PM)

**3RD ACVP/STP COALITION SCIENTIFIC CONFERENCE**—Please check box(es) to indicate your selection(s)

Coalition participants (Fellows, academic, and industrial mentors, and representatives of sponsoring companies) as well as non-participants are invited to attend the Conference at no additional cost. Registration Required.

**Sunday, June 20**  3<sup>rd</sup> ACVP/STP Coalition Scientific Conference. Free (8:00 AM–5:00 PM)

**Sunday, June 20**  Breakfast (7:30 AM), Lunch (12:00 NOON–1:00 PM), and Cocktail Reception (5:00 PM–6:00 PM) at 3<sup>rd</sup> ACVP/STP Coalition Scientific Conference for non-Coalition participants (\$150)

**REGISTRATION**—Please add fees for Meeting, Continuing Education Courses below

**STP Member, Student, and Non-Member** paid registration includes: Monday through Thursday scientific sessions, continental breakfasts and breaks Monday through Thursday, lunch on Monday, Exhibit Hall access, and one admission to the Wednesday evening President's Reception.

**Guest** registration includes: Guest Hospitality Suite access (and its Monday through Thursday continental breakfasts and afternoon breaks), one admission to the President's Reception and a Monday half-day tour (for guests registered by March 1, 2010). **Exhibitor** \$380 registration includes: Exhibit Hall access, continental breakfasts, breaks, Monday lunch held in the Exhibit Hall, and one admission to the President's Reception.

Meeting Fees: Please check applicable box(es).	Until April 10th	Until May 20th	On-Site
<input type="checkbox"/> STP Member <input type="checkbox"/> IFSTP Member	\$530	\$580	\$615
<input type="checkbox"/> Student	\$115	\$135	\$170
<input type="checkbox"/> Non-Member, Government/Academic	\$615	\$680	\$715
<input type="checkbox"/> Non-Member, Industry	\$730	\$780	\$815
<input type="checkbox"/> Guest (Name):	\$160	\$180	\$220
<input type="checkbox"/> Exhibitor (Scientific Sessions not included)	\$380	\$380	\$380
<input type="checkbox"/> (Breakfast, Lunch, & Reception) 3 <sup>rd</sup> ACVP/STP Coalition Scientific Conference	\$150	\$150	\$150
<input type="checkbox"/> CE 1 <input type="checkbox"/> CE 2 <input type="checkbox"/> CE 3 (Student registrants, each CE course is \$50.)	\$150 each	\$175 each	\$200 each
<input type="checkbox"/> Box Lunch—IFSTP Panel Discussion on Global Practices and Challenges in Training Toxicologic Pathologists	\$35.50	\$35.50	\$35.50
<input type="checkbox"/> Chicago Architecture River Cruise	\$30	\$30	\$30

CE Course Fees: For non-meeting registrants, please add \$100 to the cost of each CE course.

**REGISTRATION TOTAL** (including Meeting, Guest, CE Courses):  
 \$ \_\_\_\_\_ \$ \_\_\_\_\_ \$ \_\_\_\_\_

**METHOD OF PAYMENT**

Check or Money Order # \_\_\_\_\_ Government Purchase Order # \_\_\_\_\_

Credit Card  American Express  Master Card  Visa Name on Card \_\_\_\_\_

Credit Card # \_\_\_\_\_ Expiration Date \_\_\_\_/\_\_\_\_/\_\_\_\_

**RETURN THIS FORM WITH PAYMENT TO:**  
**Society of Toxicologic Pathology**  
 Meeting Registration  
 P.O. Box 758960  
 Baltimore, MD 21275-8960  
**Fax: 703-438-3113**  
 Faxed forms are accepted only if using credit cards.  
 U.S. GOVERNMENT PURCHASE ORDERS MAY BE FAXED OR MAILED WITH REGISTRATION FORM

**REGISTER ON-LINE: www.toxpath.org**  
 All hard copy and fax registration information will be entered on-line by STP staff.  
**CANCELLATION/REFUND POLICY:** All requests for cancellations and/or refunds must be received in writing at STP HQ by **May 10, 2010**. These refunds will be processed, less a \$25 processing fee. Refund requests received after May 10, 2010, will not be processed.

STP will publish an on-line Annual Meeting Attendee List, including physical and e-mail addresses, for all meeting attendees. This will be password protected.

Check here if you do not wish to be listed in the on-line attendee list provided to all registrants.

STP also offers Annual Meeting exhibitor companies and corporate sponsors the opportunity to purchase a pre-or post-meeting registrant list (physical address, **not** e-mail address) for approved one-time mailings about Annual Meeting events or their products or services.

Check here if you wish to be excluded from the list provided for approved 2010 Exhibitor or Sponsor mailings.

## STP Sponsorship Opportunities



Have you considered becoming a Society sponsor? This is an excellent way to increase your company's presence before, during, and after the STP Annual Meeting while supporting the activities of the Society. Sponsors are recognized on the STP Web site, in the final *Program*, in *Scope* Newsletters and on signage throughout the meeting.

### Sponsorship Opportunities:

\$15,000 Diamond Sponsor	\$5,000 Ruby Sponsor
\$10,000 Emerald Sponsor	\$2,500 Sapphire Sponsor
\$7,000 Opal Sponsor	\$1,000 Pearl Sponsor

All sponsors receive the following:

- Acknowledgment on STP Web site
- Acknowledgment on the Wall-of-Honor during Annual Symposium events
- Printed recognition in the STP Annual Symposium final *Program* (deadline is March 15, 2010)
- Printed acknowledgement in the Spring (deadline is March 15, 2010) and Summer Editions of *Scope*, the STP Newsletter
- Sponsor ribbons for name badges

For more information please contact Sue Pitsch at 703-438-7508 or [spitsch@toxpath.org](mailto:spitsch@toxpath.org).

**The Society of Toxicologic Pathology  
would like to thank our sponsors for  
their generous contributions.**

### Sponsor and Exhibitor-Hosted Events

Exhibitors or Sponsors may host an event for all attendees, such as a breakfast, lunch, or reception that does not compete with STP scheduled events. The cost of hosting a function is free; however, all catering costs are the responsibility of the exhibiting company. Events will be publicized in the Exhibits section of the *Program* book. Please contact Maureen Kettering, Meeting and Exhibit Planner at [mkettering@toxpath.org](mailto:mkettering@toxpath.org) for further information.

## 2010 EXHIBITORS

(as of December 16, 2010)

**Ani Lytics, Inc.**

**Antech Diagnostics GLP**

**Aperio**

**AstraZeneca**

**Aurora Interactive Ltd.**

**Colorado Histo-Prep**

**EPL Archives**

**EPL, Inc**

**HistoTox Labs, Inc.**

**HSRL, Inc. (Histo-Scientific Research Labs)**

**Instem**

**International Federation of Societies of  
Toxicologic Pathologists (IFSTP)**

**Marshall BioResources**

**NIEHS/NTP**

**Olympus America, Inc.**

**PDS Preclinical Data Systems**

**Pfizer Inc.**

**Premier Laboratory, LLC**

**Roche**

**SAGE**

**SlidePath**

**SNBL USA, Ltd.**

**Society of Toxicologic Pathology (STP)**

**Taconic**

**Vet Path Services, Inc.**

**Xybion Medical Systems**

# STP Sponsors

The Society of Toxicologic Pathology thanks the following sponsors for their generous contributions:

(AS OF FEBRUARY 23, 2010)

Diamond:

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**GEMpath Inc.  
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Society of Toxicology**

Sapphire:

**Daiichi Sankyo Co. Ltd**

***Thank you for your support!***

*If you and/or your company are interested in 2010 Corporate Sponsorship, please contact STP Headquarters at [stp@toxpath.org](mailto:stp@toxpath.org) to request a Sponsor information package.*

STP Headquarters: 1821 Michael Faraday Drive, Suite 300, Reston, VA 20190  
Tel: 703-438-7508 Fax: 703-438-3113 Web site: [www.toxpath.org](http://www.toxpath.org)



## Call for Abstracts

STP is pleased to invite pathologists, residents, and students to submit abstracts for poster presentation at the STP/IFSTP 2010 Joint Symposium. Abstracts may be submitted on-line at [www.toxpath.org](http://www.toxpath.org) through April 1, 2010. Contents of the poster presentations should pertain in some way to the field of toxicologic pathology but are not limited to "classic" toxicity studies/issues technologies. Naturally occurring toxicities (including poisonous plants), in any species as well as spontaneous and infectious diseases of species used in toxicity studies are welcome as are mechanistic *in vitro* and molecularly-oriented studies. Studies in alternative species such as fish are also encouraged.

Papers previously published may be submitted and presented, however, only original unpublished work will be published in *Toxicologic Pathology*.

## Student Travel Awards

Student Travel Awards are available to Graduate Students for participation in the Annual Symposium of the Society of Toxicologic Pathology. Each of the students who are chosen will receive a \$1,000 stipend to defray travel, and lodging costs associated with attending the convention, complimentary meeting registration, and complimentary student membership (for the following year). Recipients will be honored at an Awards Ceremony prior to the Annual Business Meeting on Wednesday.

Submit an abstract on-line (should be limited to 250 words) describing your original work involving clinical or experimental research that relates to experimental or toxicologic pathology.

For award applications and detailed instructions, please visit <http://www.toxpath.org/am2010/awards.asp>.

Submit Abstracts by April 1, 2010, on-line (<http://www.toxpath.org/am2010/abstracts.asp>).

## Charles Capen Student Travel Award

The Charles Capen Student Travel Award recognizes Dr. Charles Capen and his legacy as a researcher, teacher, and mentor to the veterinary and toxicology pathology communities spanning more than four decades. Dr. Capen was recognized worldwide as an exceptional leader in veterinary and biomedical research. He was a highly regarded mentor to graduate students and postdoctoral scientists. His students are now leaders throughout academia, government, and industry and have contributed significantly to his reputation as an outstanding teacher and research mentor.

The International Academy of Toxicologic Pathology (IATP) funds an award in the amount of \$750 USD which can be used by the successful student for travel or registration costs to attend a conference of a regional Society of Toxicologic Pathology.

The successful applicant will have demonstrated achievements in the field of toxicologic pathology including but not limited to:

1. Research contributing to public safety as it relates to the adverse health effects of xenobiotics;
2. Establishing test methods and standards that enhance the field of toxicologic pathology; and/or
3. Developing new or novel uses of toxicologic pathology in safety research.

Nominations for this award shall be submitted to the IATP Executive Office. A committee appointed by The Board of Directors of the IATP will determine the recipient by a majority vote. This will occur prior to the meeting.

The application materials should include a resume (CV), a letter (no more than 2 pages) from the applicant which describes how their work addresses any or all of the areas described above in 1–3, and a letter (no more than 2 pages) from their advisor or mentor which explains the attributes of the student and how they will contribute to the field of toxicologic pathology as a career path.

## Young Investigator Award

Young Investigator Awards (1<sup>st</sup>, \$500; 2<sup>nd</sup>, \$250; 3<sup>rd</sup>, \$100) are also presented at the STP meeting for the top three student poster abstracts. When you submit an abstract on-line, please check the appropriate box to indicate your interest in applying for the Young Investigator Award. Applicants will receive instructions about the selection process and poster judging times via e-mail.

### MEETING DEADLINE TIMELINE

VISIT: [WWW.TOXPATH.ORG](http://WWW.TOXPATH.ORG)

Abstract Submission Deadline: **APRIL 1, 2010**  
Advance Registration Deadline: **APRIL 10, 2010**  
Meeting Cancellation Deadline: **MAY 10, 2010**  
Pre-Registration Deadline: **MAY 20, 2010**  
Hotel Reservation Deadline: **MAY 27, 2010**

Please make hotel reservations as soon as possible to ensure availability.

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### The Society of Toxicologic Pathology

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Tel: 703-438-7508 Fax: 703-438-3113 Web site: [www.toxpath.org](http://www.toxpath.org)