Society of Toxicologic Pathology

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THE SCOPE

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Toxicologic Pathology and the Immune System to Be the Focus of STP 2011 Meeting in Denver

The Hyatt Regency in Denver, Colorado will be the headquarters hotel for the STP 30th Annual Symposium, June 20–23, 2011. This Four-Diamond Denver hotel is in an ideal downtown location near arts, entertainment, sports, restaurants and shopping.

The symposium will address the fundamentals and recent innovations in the field of toxicologic pathology and the immune system. The focus of this international meeting is to correlate advances in the morphologic evaluation and interpretation of immunopathology findings with functional, cellular, and molecular knowledge in a series of plenary and poster sessions. The Scientific Program Co-Chairs are **Susan A. Elmore, DVM, MS, DACVP, DABT**, National Institute of Environmental Health Sciences, National Toxicology Program, **Patrick J. Haley, DVM, PhD, DACVP,** Incyte, Corp, and **Jerrold M. Ward, DVM, PhD, DACVP,** Global VetPathology.

The major goal of the meeting is to provide an interactive program that allows for discussion of the current state of knowledge of immunopathology evaluations in conventional toxicology and specialized immunopathology studies. Foundational sessions will include fundamentals of Immune System Biology, including Basic Immunology, Functional Tests and Toxicologic Immunopathology; Innate Immunity; Acquired Immunity; Developmental Immunology; Challenges of Therapeutic Immunomodulation; and Issues and Observations Concerning Environmental Exposure to Immunotoxicants.

The presentations will focus on a mix of standardized and contemporary pathology methods for immunopathology investigations. The meeting will also provide a unique forum to review the progress in the application of best practices for routine and specialized pathology evaluations of the immune system across the pharmaceutical, chemical, and academic worlds of pathology. An interactive panel discussion will explore the issues associated with differentiation of stress effects and immunotoxicity.

The traditional NTP Satellite Symposium, entitled Pathology Potpourri, in advance of the symposium will focus on the customary presentations of challenging lesions but will also include a presentation on proposed INHAND lymphoid nomenclature. Four Continuing Education sessions will be held on Sunday before the general sessions begin; interacting with regulatory authorities; biomarker development; ultrastructural analysis and toxicologic pathology; and histopathology of the rodent lymphoid and hematopoietic systems. A half-day Career Development Workshop on what it takes to be a consultant will also be held on Sunday and the Career Development Lunchtime Series Monday will provide guidance on the use of professional networking in career development.

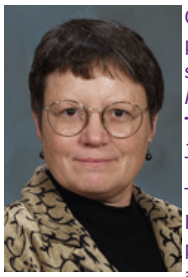
The immune system and its responses is one of the more complex and challenging arenas of toxicologic inquiry and regulatory concern, and this congress promises to be an opportunity to review and expand your knowledge in this important field. We hope you will join us for this exciting program in Denver.

Society to Commemorate 40th Anniversary in Denver

STP attendees will have an opportunity to honor the Society's founders and original members at the 2011 Denver Annual Meeting as STP celebrates the 40th anniversary of its formation in 1971.

President's Report

The STP has been involved in a number of national and international activities since the last newsletter. Intense discussions have surrounded a proposed early draft of an



OECD guidance document on pathology peer review. Multiple societies of toxicologic pathology and companies are advocating that any new guidance on peer review should follow the recommendations provided in two articles published in *Toxicologic Pathology*. Thanks to **Jenny McKay, Rani Sellers, Erio Barale-Thomas, Munehiro Teranishi, Peter Mann, Brad Bolon,** and **Dan Morton** for bringing European, Japanese, and American colleagues together on this issue.

The IFSTP driven "International Recommendations for Training Future Toxicologic Pathologists Participating in Regulatory-Type, Nonclinical Toxicity Studies" was published in the last issue of *Toxicologic Pathology* (38: 984–992) and is also available under Best Practice documents on the STP Website. Thanks to **Brad Bolon,** the STP representative for providing a leadership role.

The STP is continuing the tradition of periodic teleconferences with the Presidents of the STPs and the IFSTP, and also meeting with ACVP Council which occurred at its recent Annual Meeting in Baltimore, Maryland. This resulted in an exchange on current activities and issues.

The current and past Presidents of the Latin American Society of Toxicologic Pathology (LASTP), Professors **Maria Lucia Dagli** (University of São Paulo) and **João Lauro Viana de Camargo** (UNESP, São Paulo State University) invited me to Brazil to address "Toxicologic Pathology: Looking to the Future" at the XXVIIIst International Congress of the International Academy of Pathology held in São Paulo (October 14), and "The Potential Global Role of the STP on the Education and Trainingof Toxicologic Pathologists" and "INHAND—International Harmonization of Nomenclature and Diagnostic Criteria for Toxicologic Pathology" at the Latin American Society of Toxicologic Pathology (LASTP) meeting in Botucatu (October 18). Thanks to John Vahle and Peter Mann for providing slides for the INHAND presentation. I also met with graduate students at the Department of Pathology and Animal Science, School of Veterinary Medicine, University of São Paulo (October 19) and presented "Discussions in Toxicologic Pathology" in the Graduate Seminar series. It was exciting to see the interest in toxicologic pathology, especially among the students that attended the meeting and also my discussion with them at the University of São Paulo. The LASTP has agreed to adopt *Toxicologic Pathology* as their official journal, similar to the BSTP. We are piloting a program with LASTP for electronic access only to the journal for a reduced cost. It is clear to me that if STP does not take a global leadership role in education, this vacuum will be filled by others.

STP has also responded to the Warning Letters issued by the U.S. FDA's Center for Drug Evaluation and Research, Division of Scientific Investigations (reference no:10-HFD-45-08-01). In addition to endorsing the Society of Quality Assurance's letter to the U.S. FDA challenging the regulatory basis for the warnings, STP sent a separate letter requesting clarification and providing additional viewpoints from the perspective of the toxicologic pathology community. Thanks to **Roy Kerlin, Peter Mann, Dan Morton,** and **Tom Monticello** for taking leadership roles on this issue

Given the increasing interest in environmental toxicologic pathology expressed by our members, STP will be starting a Special Interest Group in Environmental Toxicologic Pathology. Thanks to **Jeff Everitt** (GSK) and **Ann Hubbs** (CDC) for agreeing to take leadership roles in this initiative with support from **Doug Wolf** (U.S. EPA) and **João Lauro Viana de Camargo** of Brazil. You will be hearing more about this initiative shortly.

The 2011 Annual Symposium is shaping up well with strong sessions on the immune system. The continuing education sessions will for the first time have a morning session repeated in the afternoon. We hope you will take advantage of these sessions! The final session of the 2011 Annual Symposium will be on environmental toxicologic pathology addressing the 2010 Gulf oil spill.

Bill Iverson and **Bhanu Singh** have been selected to represent STP on the Board of Governors for the ACVP/STP Coalition (2011–2013).

STP plans to continue working with the Society of Toxicology's (SOT) Health and Human Disease Coalition with **Paul Snyder** continuing to be our point of contact.

The new education based committees have been working hard to bring to fruition some new initiatives. STP's Education Committee and Web-based Education Task Force have been working with the Educational Strategies Committee to address the membership's interest in Web based education and regional meetings to foster continuing education. This includes collaboration with the CL Davis Foundation to expand the number of regional continuing education meetings. The Web based education initiative is progressing well. However, there are still a lot of issues still to be worked out including intellectual property, access, and continuing education credit.

You will be receiving several surveys to assist the various Task Forces that are working to define the opinions and needs of the STP membership and the larger Toxicologic pathology community. Thanks to **Laura Morton** for taking on leadership of the Communications Task Force. **Ken Schafer** is heading the Special Interest Groups Task Force and **Tom Monticello** the Globalization Task Force.

Wanda Haschek-Hock
2010–2011 STP President

Changes in the Science and Practice of Pathology in Drug Development

*By **Jeff Engelhardt***

Bob Dylan had long ago told us that "the times they are a changing" and that surely is the case in the pharmaceutical, biotechnology, and chemical industries for pathologists and toxicologists. When I had finished my residency/PhD, it was pretty much a buyer's market when it came to looking for jobs. We are at the other end of that spectrum now thanks to the "redundancy" status that has been given to so many of our colleagues. How does one go about preparing for the fallout from mergers and acquisitions or just the euphemistic "right-sizing?" The simplest way is to develop yourself in a way that gives you more options than remaining at the scope. If you are anything like me, that is why I got into pathology in the first place. It's hard to give up, but there are things that you can do to become both broader and deeper in the field of toxicologic pathology that can improve your chances of not becoming "redundant."

In my career, I was given a variety of opportunities that rounded out my pathology education and improved that type of advice that I was able to give to colleagues and the organizations that I worked for. Firstly, was becoming a study director and learning how much tolerance and running about is part of that job. When you hear of "single point of control" it really means the one with the target on his or her back. There are so many things that the pathologist can do to make the life of the study director easier just by having spent time running a few studies. The second opportunity that was presented was to serve as a development team representative or project leader. This gave me the chance to see how the corporate development teams either worked or didn't depending upon the leadership and the chemistry of the teams. It also let me see how the teams morphed from being a forum for discussion of data to only being concerned with meeting timelines. Most importantly, this assignment opened my eyes as to how toxicology is perceived by many in the research and development components. I'm sure this is not fresh news for most of you.

The last and probably the most influential assignment that I had, and this was one of those real "growth opportunities," was to spend a 1-year plus rotation in regulatory affairs. In this role I functioned as a full-fledged regulatory scientist on a variety of development teams. Needless to say, I had to be conversant with the sections of the CFR that cover IND and NDA particulars. This is great reading if you are having trouble falling asleep. It also allowed me to take a variety of CE courses in regulatory affairs so I was able to learn more about the U.S. system and how the other major regions expect data to be presented in FIH and marketing application dossiers. It was also good as I was able to have side conversations with toxicology reviewers around the globe to get a better understanding of what they really expected in a toxicology report and how the pathology report could make their lives easier. It was these latter insights that made me a better pathologist when I returned to the bench. I took those items and shared them amongst the pathologists and toxicologists where I was employed. I can't always say that the suggestions were always warmly received, but I did try to keep everyone from stepping into something that is stinky and tough to clean off.

During this entire time, I kept reading studies and conducting peer reviews. Pathology was always the scientific anchor that I drew on when in any of the other assignments. Having an expertise in an organ system or an evaluation technique, such as confocal microscopy, can place you in a more tenable position should the M&A shark attack. While reinventing yourself to have a needed expertise is no guarantee, having a variety of useful tools such as understanding of regulatory affairs and crafting documents or sections for regulatory overviews, can go a long way to improving longevity. It also puts you in a much better position should you want to search for a different position.

These are not all of the things that you can do to help keep current or reinvent yourself. You need to create your own list on a regular basis, say every 2 to 3 years, and stay tuned to what is going on in the profession. What I did may not work for everyone, but it did help me get to the point that I had a very good understanding of the ultimate customer for our pathology reports and how to argue that when the organization has a difference of opinion. No matter what, do not become complacent in what you are presently doing. Reading slides is a skill learned over time, but employers are asking more of even the most skilled glass passer. Be active in the professional societies and try to pick up as much as you can on other topics. Some of the workshops sponsored by the Drug Information Association cover basic and advanced topics on regulatory affairs and drug development that are held at a variety of locations around the U.S. If I were to share anything in particular, I would say that pathologists of the future need to look at themselves not only as pathologists. We need to look at ourselves as drug development scientists with a specialty in pathology. This will let us fit in at any stage from discovery to marketing.

I hope these thoughts are useful to the readers and I wish you all the best as you look to reinvent yourself in the practice of toxicologic pathology.

Dr. Engelhardt, President of EPL, Inc., presented Changes in the Science and Practice of Pathology in Drug Development at the Career Development Workshop in June.

STP News

ACVP/STP Coalition Board News

On behalf of STP, thank you to **Anne Ryan** (Pfizer) and **Susan Elmore** (National Toxicology Program, National Institute of Environmental Health Sciences) for their outstanding service on the Board of Governors of the ACVP/STP Coalition for Veterinary Pathology Fellows. **Dr. Rya**n joined the Board in 2005 and served for two terms. **Dr. Elmore** has been a member of the Board since 2008 and served as President for the past year.

Ann Ryan

Susan Elmore

William Iverson (MedImmune) and **Bhanu Singh** (DuPont Haskell) have been appointed by the Executive Committee to fill the two open seats for three year terms. Three other STP members currently serving: Denzil Frost (Covance), **Curtis Colleton** (Bristol-Myers Squibb), and **Tom Rosol** (The Ohio State University) also represent STP on the Board. For more information about the Coalition and its activities, visit the Web site.

Welcome New STP Members

Applicant	Company Name
Abdel-Rahman, Ali	U.S. FDA
Agarwal, Magan Kumar	AS PG College
Aziz, Syed	Health Canada
Carreira, Vinicius	MPI Research/Michigan State University
Kemp, Daniel	GlaxoSmithKline
Lezmi, Stephane	sanofi-aventis
Mattix, Marce	Regional Western Pathologists
Mostafazadeh, Babak	Shaheed Beheshty University of Medical Sciences
Reddy, Bhaskar	M.P. Higher Education
Yantis, Jr., Loudon D	Covance Laboratories Inc.

The Latin American Society of Toxicologic Pathology

The Latin American Society of Toxicologic Pathology (LASTP, ALAPT) held its Annual Meeting at São Paulo State University in Botucatu, Brazil, in October. STP President **Wanda Haschek-Hock** participated as one of the invited speakers. Pictured *(L to R)*: **João Lauro de Camargo** (Meeting organizer), **Wanda Haschek-Hock, Sam Cohen** (USA), **Olga Pulido** (Canada), **Maria Lucia Dagli** (LASTP President), and **Hiroyuki Tsuda** (Japan).

Member News

We are starting a Member in the News section to highlight the accomplishments and news about the STP members. If you or another STP member you know have been in the news recently, please contact us with your news and accomplishments.

Annual Meeting News

Exhibit Area Expanded for the STP 30th Annual Symposium

The Exhibit Hall at the STP 30th Annual Symposium will open the evening of Sunday, June 19 and close the afternoon of Wednesday, June 22. The hall is located next to the General Session room and registration. This year exhibitor booths will be found not only inside the hall but also in the foyer outside of Exhibit Hall and Session rooms. Prime spots are still available in this high traffic area! An Internet Café will be available in the hall, where attendees can check e-mail during exhibit hours. Scientific poster sessions will also be held in the Exhibit Hall.

The exhibitor-sponsored buffet luncheon held during the 2010 Annual Meeting in Chicago was a huge success! This event will return to the Exhibit Hall in Denver on Monday, June 20 and is offered to all attendees. Tables will be available in the Exhibit Hall to accommodate the luncheon, as well as the welcome reception, continental breakfasts, and refreshment breaks throughout the week. These events can be sponsored by one company or can be partially sponsored by multiple companies.

Excellent booth spaces are still available both inside the Exhibit Hall and in the foyer of the Ballroom. Please visit the STP 2011Annual Meeting Web site or contact **Maureen Kettering** if your company would like more information about exhibit space or sponsorship opportunities in Denver.

Hyatt Regency Denver Ideal Venue for 2011 Meeting

The STP headquarters hotel, Hyatt Regency Denver, is the ideal venue for the 2011 STP meeting. Located in the central downtown next to the Colorado Convention Center, it is within walking distance of a wide variety of interesting restaurants and just one block from the 16th street pedestrian mall and free shuttle. The five-year old hotel's layout will allow STP to hold the sessions, exhibits and posters, and most auxillary meetings on the same level this year. The Hyatt has several convenient restaurants and bars: Altitude—an upscale three-meal restaurant; Strata Bar—a stylish and open cocktail area; Peaks Lounge—a 27th floor lounge featuring spectacular mountain views, cocktails, light fare, and desserts; and Perks—a 24-hour Coffee and convenience store. The hotel's recreational facilities include a large health club with indoor lap pool, outdoor hot tub, sauna, and treadmills overlooking the mountains. There are also nearby jogging paths.

All attendees are encouraged to stay at the Hyatt, which is significantly less expensive than the 2010 hotel. The Hyatt will also offer free wired Internet in each guest room for the STP meeting. STP contracted for the 2011 room block several years ago in order to provide a discounted STP room rate and to ensure that there would be enough rooms for all attendees. The number of rooms STP contracted for was carefully considered based on past meeting attendance especially since the Society will have to pick up additional costs if the room block is not filled.

Make Your Hotel Reservations.

The Mile High City

Denver is a vibrant city situated on a mile-high plateau at the base of the Colorado Rocky Mountains. It is known for its brilliant blue skies and nearly 300 days of sunshine. Whether you like sightseeing, hiking, biking, skiing, rafting, or attending sporting or musical events, Denver has activities and nearby destinations of interest.

All meeting events will take place at the Hyatt Regency Denver, which is in a prime location in downtown Denver just one block from the 16th Street Pedestrian Mall. The Mall has free shuttle buses that traverse the mile-long street lined with many interesting restaurants and shops. Denver's Light Rail system stops in front of the hotel.

A popular section of the downtown called LoDo (Lower Downtown) is within walking distance or a short shuttle ride from the Hyatt. This area of converted turn-of-the century red brick buildings features trendy restaurants and shops as well as 90 brew pubs.
Popular Denver Sites

- Denver Art Museum
  Spectacular building with Native American, Western art, and European masters collections.
- Denver Museum of Nature & Science
  The Denver Museum of Nature & Science is theRocky Mountain region's leading resource for informal science education. A variety of exhibitions, programs, and activities help Museum visitors experience the natural wonders of Colorado, Earth, and the universe.
- Colorado Rockies Baseball
  The Rockies will play at home on Saturday, June 18, 2011, and Sunday, June 19, 2011 against Detroit.
- Denver Performing Arts Complex
  Theatre, symphony, Broadway shows, opera, and ballet.
- Denver Zoo
  Home to more than 4,000 animals.
- Downtown Aquarium
  More than 15,000 fish, mammals, and plants in family-friendly facility where you can dine next to the sharks.
- Millercoors
  Golden, Colorado—Free tours are offered at the largest single brewery in the world.
- Museum of Contemporary Art
  Five galleries of changing exhibits and rooftop café
- Red Rocks Amphitheatre
  15 miles west of Denver—A 9,000 seat amphitheatre surrounded by 300-foot red sandstone rock formations. The venue hosts a summer concert series and offers hiking trails throughout the park.
- Rocky Mountain National Park
  40 miles North of Denver—Scenic area with 400 square miles of lakes, wildflowers, meadows, mountains and spectacular views. More than 3,000 elk and 800 bighorn sheep call the park home as well as numerous mule deer and a small population of moose. There are 280 bird species and nearly 60 other species of mammals.
- U.S. Mint
  50 million coins are made here every day. Free tours *(reservations recommended)*

For more information about Denver, visit The Offical Travel and Visitor Bureau Web site for Denver, Colorado.

iPhone and Android user apps:

The site provides a link to the free iPhone app "Visit Denver" and a similar app is available for Android users.

2011 Award Opportunities

STP 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 $1000 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.

1. Submit an abstract on-line by March 1, 2011, (should be limited to 250 words) describing your original work involving clinical or experimental research that relates to experimental or toxicologic pathology.
2. Fill out the Student Travel Award Flyer and Application

Student Events

There will be a student outing to the Denver Museum of Nature & Science on Tuesday afternoon, June 21. This will be a fun opportunity to meet fellow students and interact with mentors. This function has been the highlight of past meetings for many students. Details will be e-mailed to student registrants when available.

2010 ACVP Student Speaker Award

The Fifth Annual STP Student Speaker Award competition was held in the Toxicologic Pathology Specialty Section at the concurrent meetings of the American College of Veterinary Pathologists (ACVP) and the American Society for Veterinary Clinical Pathology (ASVCP) in Baltimore, Maryland from October 30–November 3, 2010. Dr. M.P. Goravanahally (West Virginia University, National Institiure for Occupational Safety and Health) was selected the winner for the presentation entitled "Diacyl Increases Sensory Innervation and Substance P Production In Rat Trachea." For winning the competition, Dr. Goravanahally received free registration to the next STP meeting (June 2011, Denver, Colorado) plus a $1,000 cash award to be used towards lodging and travel.

Call for STP Achievement Award Nominations

Is there an STP Member you feel deserves to receive the **STP Achievement Award**?

This award is given by the Society of Toxicologic Pathology to a member in good standing who has played critical and influential roles in the area of toxicologic pathology over an extended period of time. Achievement may be demonstrated by a body of work in any or all of the following areas: scientific discovery, education, or regulatory standards.

> ***Nomination Process***
> Nominators must be STP members. A nomination letter that highlights the candidate's achievement and influence in the area of toxicologic pathology and the candidate's *CV* are required and should be sent to STP Headquarters by March 1, 2011. Two supporting letters from other STP members are also required. Additional letters from non-STP members may be submitted. Nominations will be held forward for 2 years.

Charles Capen Travel Award

The Charles Capen Travel Award recognizes **Dr. Charles Capen** and his legacy as a researcher, teacher, and mentor to the pathology and toxicology communities spanning more then 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 and trainees 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 funds an award in the amount of $750 USD which can be used by the successful applicant for travel or registration costs to attend a conference of a Society of Toxicologic Pathology or related meeting.

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.

IATP was established in 1999. Its purpose is to recognize and accredit toxicologic pathologists whose work affects the public welfare throughout the world. Fellows of IATP are scientists who have achieved expert status in the practice of toxicologic pathology through scientific leadership and innovation which benefits society and their profession.

Accreditation in IATP is based on formal training in pathology, demonstrated achievement, proven ability, continuing practice and expertise.

Agencies, universities and other organizations regularly seek out IATP Fellows to serve as guest lecturers, panel experts, and consultants.

For more information on IATP please visit Web site.

SOT Roger O. McClellan Student Award Fund

This Fund was established with an initial gift from **Roger O.** and **Kathleen McClellan**. **Roger O. McClellan** is one of 400 individuals who have a Doctor of Veterinary Medicine (DVM or VMD) degree and are members of the SOT. He has served the SOT in many roles including President (1989–1990) and the Founding Chair of the SOT Endowment Fund Board. The Fund was created to further **Roger's** and **Kathleen's** long-time interest in encouraging individuals with a DVM degree to pursue careers in biomedical research including comparative toxicology and pathology. Proceeds from the Fund will be used to provide stipends to Award recipients selected based on the scientific merit of research proposed for presentation at the SOT Annual Meeting.

Special consideration will be given to abstracts that exemplify the role of comparative medicine in evaluating the safety/risk of exposure to chemicals or physical agents. Nominees for the Award must be individuals who are enrolled in a program leading to a DVM degree or in post-DVM residency or graduate program. The awardee must be a member of the Society of Toxicology (any level) or have an application pending. The abstract must be submitted and accepted through the regular SOT submission process. This research must be hypothesis driven. Please email applications to **Brian Day, PhD** and **Ann Hubbs, DVM, PhD, DACVP** no later than January 1, 2011. The award application must include the following: (1) A letter of recommendation from the mentor, (2) a one page statement of the applicant's scientific interest, (3) a current *CV*, and (4) a copy of the submitted abstract. The awardee will either present their research in a poster or a platform presentation at the annual SOT meeting. The awardee must attend the receptions for both the Comparative and Veterinary Specialty Section (CVSS) and the Toxicologic and Exploratory Pathology Specialty Section (TEPSS). The award will be given at one of these receptions and the recipient will be acknowledged at the other. Award recipients will be selected by a committee jointly appointed by CVSS and TEPSS. This Award will complement existing awards of these two Specialty Sections thus applications for multiple awards are encouraged. For the 2011 competition, the Roger O. McClellan Award will be equal to $2,000.

Please e-mail **Dr. Day** and/or **Dr. Hubbs** if you have any questions.

Committee News

Scientific and Regulatory Policy Committee Update

Roy Kerlin, *Chair, SRPC and* ***John Vahle,*** *Co-Chair, SRPC*

The Scientific and Regulatory Policy Committee (SRPC) has been very active this year, with several new members joining, several long-timers leaving and a change in management in June. We bid farewell and gave a heartfelt thanks to **Ramon Kemp** as the departing Chair, as well as to **Rani Sellers,** who was the previous Chair. We are very thankful to them for leaving the committee in such great shape. We also thank **Terry Peters,** who has recently retired from the U.S. FDA (CDER), for her great work as a liaison between STP and U.S. FDA for many years. We hope that Terry will continue her relationship with the STP in another role in her retirement.

The SRPC has been instrumental in recently bringing several important manuscripts to fruition, specifically, the series of three articles on hepatic drug metabolizing enzyme induction series led by **Suzanne Botts** (who also left us in June), the "Best Practice" paper on bone marrow evaluation in carcinogenicity studies led by **Bill Reagan,** and the "Best Practice" manuscript on clinical pathology in carcinogenicity studies submitted by a group chaired by **Jamie Young**. Several other important Best Practices or Recommendations manuscripts are in various stages of completion including a manuscript providing recommendations for histopathology evaluations of biomarker qualification studies, including the position of the STP on blinding or non-blinding of pathology reads. Other working groups currently in progress include evaluation of CNS sampling techniques, use of hormonal assessments in toxicity studies, the significance of increased pulmonary macrophages in inhalation studies, and the evaluation of reversibility in toxicology studies.

An item of considerable importance to STP members, and that has become a major effort for the SRPC this year (although began in 2009), is the issue regarding Peer Review of histopathology for toxicology studies. Several regulatory agencies around the world have recorded opinions about the conduct and timing of pathology peer review, and the STP has been working in concert with other industry organizations (BSTP, ESTP, ACVP, JSTP, SQA, PhRMA, etc.) to advocate for the best possible process that will produce the highest quality, most accurate data in an efficient and transparent manner. We want to partner with all regulatory agencies to foster the best practices to enable safe and effective drugs to be made available to the patients that need them. This story is still unfolding, and we encourage members to view the documents available on the STP Web site.

Communications, Globalization, and Special Interest Group Task Forces Formed

Three new STP Task Forces have recently been formed by the Executive Committee (EC). The Communications Survey Task Force will look at member preferences for format, features, and functions of STP's journal, *Toxicologic Pathology*, the STP Web site, and the *Scope* newsletter. The group, chaired by **Laura Dill Morton**, will design a survey, which will be e-mailed to all members in early 2011. Task force members include: **Bernie Buetow** (Internet Committee Member), **John Foster** (Editor-in-Chief of

Toxicologic Pathology), **Bindhu Michael** (*Scope* Editor), **Kevin Keane, Stuart Levin, Brett Saladino, Manu Sebastian**, **Monique Wells**, **and Anne Ryan** (EC Liaison).

The Globalization Task Force, chaired by **Tom Monticello**, will review the STP Globalization Goal, determine if it is still appropriate, and recommend a strategy to address the impact of globalization—both the challenges and opportunities—on STP members and the Society. Task Force members include: **Gopakumar Gopalakrishnan, Helen Han Hsu, Binod Jacob, Rie Kikkawa, Evelyne Pollack, Dan Rudmann, Alok Sharma,** and **Mohamed Slaoui.**

The Special Interest Task Force will be chaired by **Ken Schafer**. The Society has had several interest groups formed of members with interest in particular disciplines, however, there are no current consistent guidelines or approaches to programming, funding, etc. This group will develop guidelines relating to STP existing and future Interest Groups. Task force members include: **Erica Eggers**, **Glenn Elliott**, **Jeff Everitt**, **Christy McKnight**, **Odete Mendes**, **Mark Rolsma**, **Sarah Tannehill-Gregg**, and **Justin Vidal**.

Wrinkled Section

More Politics, Please

*Submitted by **James W. Crissman***

Climatology has been so politicized that denial of the vast body of global warming science has become a basic tenet of Republicanism. And toxicology has been pretty well politicized by conspiracy theorists who believe evil corporations are flooding them with gender-bending can linings and hormone-laced milk that cause men to grow breasts and kindergartners to enter puberty. Our particular niche, toxicologic pathology, has, unfortunately, remained boringly above the fray.

To compensate for this professional deficiency at meeting my minimum daily requirement for conflict, and with mid-term elections only a week away, I find myself entertained to an unseemly degree by the verbal flatulence blowing back and forth that now passes for political debate. If I could not laugh, I would cry. My emotional instability aside, it makes me think we are missing a big chance to make our professional interactions more exciting and newsworthy by flinging a lot more mud at each other. We could develop ideological pathology camps that would reliably line up behind favored diagnoses. If we raise the stakes high enough, pathologists ingesting performance enhancing drugs might work out their differences in physical combat, which could be as exciting as watching a hybrid of the World Wrestling Federation and C-Span. This could give each of us our fifteen minutes of fame as knife-wielding, white-coated pathologists appear on Jerry Springer.

> *"The pathologist from Amalgamated Drug Dealers has clearly read these slides blind—totally blind! If he is not blind as a cave fish, he is at least soft on cancer. He's clearly soft on proliferation generally, and apparently cannot even pronounce the word hyperplasia."*
>
> *"Were there a shred of truth in my opponent's argument, I would consider it. However, she is known to be a witch, and I suspect she conjures her diagnoses in séances over the lexicon of Wiccanpedia. She is all hippo and no campus."*
>
> *"The cell is dead. Call it necrotic, apoptosed, oncosed, or comatose; I don't give a rip. It's dead as Monty Python's parrot. It is an ex-cell. Expired. Done. Finished. Crumped. Its race is run, its goose is cooked, its bucket has been kicked. This cell has bought the farm."*
>
> *"No, no, this cell is perfectly fine. It's just sleeping. It is merely quiescent—feeling very small, indeed."*

My plan to encourage a more dynamic profession starts with gerrymandering the academic training programs to favor extreme views. Then we could select pathology working groups to include only contrarian personalities who could filibuster for eons over whether to call it an altered focus or focal hyperplasia, or even a lesion versus a mere finding. A map of the Pathologic States of America could divide us into acidophilic states and basophilic states. And we could go apoplectic if ever any amphophilics wished to marry or adopt. There could be a rising third party of homeochiropathologists—tunnel-visioned quacks whose only agenda is to lower our dues. And we could impose term limits to prohibit the sort of smug competence that comes from more than six years at the bench—make them managers or put them in sales. That way, working pathologists would pay more attention to stock-holders as they collect their data.

The time to be reasonable has passed! The Age of Assertion is upon us! The Age of Reason is dead! It's time to fight! Yes we can! YES WE CAN!!!

This is an article submitted to SCOPE and the views expressed in this article are those of the authors and do not necessarily represent the views of the Society of Toxicologic Pathology.

Member Spotlight

An Interview with Terry Adams

*By **Bindhu Michael***

Where do you work and what are your main job responsibilities?

In a nutshell, my primary function is to perform Pathology Data Reviews, Audits of Pathology Specimens, and Quality Assessment Reviews of subchronic, chronic, and special studies for the National Toxicology Program as well as participate in Pathology Working Groups.

How did your career evolve to this? Is it perfect?

Coming to EPL and North Carolina wasn't a career decision…it was a personal one!! After living in Michigan, Massachusetts, New Jersey, and Pennsylvania I was just sick of snow and winter and did I say I was really sick of New Jersey?!! Furthermore, having experienced three merger/acquisitions in nine years of the pharmaceutical industry I had really grown tired of drug companies. It was time for a change of scenery!!

What aspect(s) in your current position (or career for that matter) you find most rewarding?

The pleasure of working at EPL is associated with two factors. First of all, in our function of providing the pathology quality assessment review for subchronic and chronic National Toxicology Program studies we get to evaluate all of the relevant lesions without having to read through the normal tissues. Given the nature of the test articles of these studies we have the opportunity to review a lot of unusual, interesting changes. Secondly, EPL is populated with a group of exceptional, experienced pathologists. The opportunity to work with people such as Henry Wall (who is the best toxicologic pathologist that I've ever worked with…bar none!), **Rodney Miller, Gabrielle Willson, Amy Brix, John Seely, Jerry Hardisty** and **Margarita Gruebbel** is invaluable. Furthermore, we have several younger pathologists that are extraordinarily bright and talented.

Also, my post-doc years at the Harvard School of Public Health were extremely gratifying. The people there were extraordinarily bright and worked hard. The debates within the department on topics ranging from science to politics to social issues were intelligent, creative, and vigorous. They were phenomenal events. Also, having the opportunity to lecture to gifted undergraduate and graduate students was challenging but rewarding….it required you to be your absolute best. I had experiences in that environment that I never thought I would have.

Where did you receive your veterinary and pathology training?

My veterinary education was completed at Tuskegee University followed by pathology graduate training at Michigan State University. After finishing my PhD (Pathology/Environmental Toxicology) at MSU, I had a blast for three years at the Harvard School of Public Health as an NIH postdoctoral fellow.

Where might you see the field of toxicologic pathology headed in the next 5 to 10 years?

Clearly the demographics will be different….more female, less male…and certainly more ethnically diverse. These are great evolutions, because this discipline has been in need of fresh ideas for a long time. However, I don't think the practice of toxicologic pathology will be dramatically different. In my experience this discipline evolves fairly slowly. Toxicologic pathology is largely driven by the requirements and needs of pharmaceutical drug development. As a consequence, governmental regulations and public health concerns put downward pressure on any "bold" changes. Change in toxicologic pathology is an evolution rather than a revolution. I think we will begin to understand the utility of genomic data and its role in risk assessment. Certainly genetically modified animal models will become more prevalent in bioassays. However, I don't see the standard bioassays going anywhere in the immediate future.

What or who "sparked" your interest in pathology?

Dr. Albert W. Dade, my pathology Professor and mentor in veterinary school is responsible for inspiring me to pursue a career in veterinary pathology. **Dr. Dade** was a gifted educator and motivator that skillfully communicated the nuance and art of pathology in a manner that made the subject matter exciting and fun for his students. Truth be told **Al Dade** is responsible for a lot of (if not most) African American pathologists in our industry. During the 70s, 80s, and even 90s there was a vibrant pipeline of aspiring Tuskegee graduates to pathology training programs at Michigan State University, Purdue, Washington State, and elsewhere. **Al Dade** (and a few others) was largely responsible for that phenomenon.

What are some of the hardships you've had to endure along the way, some of the obstacles you've had to overcome?

As a native New Orleanian the recovery of our collective lives and the city has been extraordinarily difficult following the failure of the federal levee system resulting from Hurricane Katrina. Fortunately, my parents, sister, and nephew evacuated in time and survived. Returning to the city after the flood was emotionally devastating. There aren't any words to describe the feeling of seeing everything you've ever known completely destroyed or of having to throw all of your family's possessions onto the street to be collected by a front end loader. The northern and eastern parts of the city looked like a moonscape. It was like walking through the "Twilight Zone." Frankly, I still think I'm quietly suffering a little post-traumatic stress. I know many of my friends who remain in the city are experiencing lingering stress and depression. However, New Orleanians are tough, resilient people. They won't bow down! Their ability to celebrate life every day carries them through tough times. New Orleans was difficult place to live prior to Katrina and the BP oil spill…now it's a little tougher. Natives of the city will never leave because the intangible benefits of living in New Orleans greatly outweigh the challenges. The citizens that returned after the flood have no desire to live elsewhere. Life anywhere else would be a spiritual death sentence for them. Fortunately, the city is making a slow but steady recovery and is implementing some much needed reform in its public education and criminal justice systems as well as its local government. There is hope that New Orleans will be a much better place five to ten years from now.

Any advice or tips to other pathologists?

In speaking with young, aspiring pathologists I try to encourage them to be introspective about what is it that they really want to accomplish in this profession and determine if a PhD is required for them to achieve their targets. I've questioned the utility of the PhD in this discipline for a very long time, but it has been such a fixture that its "requirement" has become dogma. My suggestion to trainees interested in a research career is to investigate a fellowship in a highly regarded well funded laboratory. I think that has the potential to be a much more efficient and productive approach to learning research techniques and developing the appropriate skill set to be a successful investigator than being laden with the structured requirements of a graduate program. I think this discipline needs a paradigm shift on its approach to research training and career development.

Your formula to balance work and life?

I try to complete projects as rapidly and efficiently as possible. Accomplishing this affords me the opportunity to pursue my external interests. At this stage of my career and life, time is the most precious commodity! I try not to waste it either at work or in any other activity. Also, I avoid doing things that I really don't want to do…professionally or otherwise.

What do you see yourself doing when you retire?

Prior to the recent economic crisis and market collapse I considered retirement to be a realistic goal…now I'm not so sure. If I'm ever fortunate enough to get there I'll pursue all of my diverse interests….one of them is cooking. I'm sure I'll end up back in New Orleans where I have a dear friend who is a chef. I'd love to have her teach me some of the intricacies of south Louisiana cooking. Also, I've always wanted to be bartender!! While living in New Jersey I got a chance to bartend a few times at a friend's bistro in Somerville. It was great fun!! So I've been kicking around the idea of opening a bar/music venue in New Orleans for quite some time. My wife and I are tied into the community of musicians in the city so the idea has some viability. Otherwise, I plan to spend my time doing the things that I love which means I'll be spending a lot of time in the south Louisiana marsh hunting ducks and catching big redfish and speckled trout.

Tells us about your family.

The biggest change is that I recently married. I finally got married 18 months ago at the age of 50… the perfect age to tie the knot! My bride's name is **Lintz Rivera** (her father was Puerto Rican/Jamaican and her mother is Swedish). She's a native of Rockland County, New York but has been living in New Orleans for the last 11 years. She was in New Orleans both pre- and post-Katrina, so she's considered to be a native. She still teaches 4th grade science and social studies in the Jefferson Parish School System and lives in New Orleans. We have sort of a "Hollywood" marriage because I'm living in Raleigh, NC. It can be tough at times, but it is reflection of the current state of our economy. We met in the Jazz Tent during the 2006 New Orleans Jazz Fest….the first Jazz Fest post-Katrina. Also, I'm fortunate that both of my parents are still alive. My father (**Edward**) is 81 and my mother (**Margaret**) recently celebrated her 80th birthday. In addition, my sister (**Paula**) and nephew (**Chris**) have been able to rebuild and relocate back to New Orleans.

What pets do you have?

I have one handsome 7 year old chocolate Labrador Retriever that I got as a stray. His name is Rock and he's turned into the most expensive free dog ever! Shortly after I put him through retriever training he ruptured both of his cranial cruciate ligaments within a 12 month period. After two very expensive orthopedic procedures (TPLO surgeries) he's still moving pretty well. He loves to hunt so I take him out on dove shoots whenever I can. He has one very bad problem….he likes to eat anything he retrieves!

Tell us about your hobbies and other interests.

My hobbies/interests can be summed up succinctly as hunting, fishing, sporting clays, and Saints football.

One of the advantages of working at EPL is that it's less than a mile from the Durham County Wildlife Club (DCWC) of which I'm a member. DCWC is a first-rate shooting facility with two trap ranges, five

skeet fields, and an exceptional 5-stand sporting clays range that we think is the best on the east coast. Sporting clays is a shooting game that has been compared to golf. Since being here I've gotten much more involved in shooting sporting clays and I get to the 5-stand at every opportunity. Moreover, we have a few good sporting clays courses that are nearby. I try to get out to one of those whenever possible.

Also, one of my motivations for moving to North Carolina was the opportunity to hunt more often. In the recent past I developed a real passion for hunting turkeys. The eastern gobbler is one of the most difficult game animals to hunt in North America and bagging one is about as challenging and frustrating as passing the ACVP boards!!

Moreover, in the fall I try to dove and deer hunt here in the Carolinas as often as possible. I also duck hunt and fish the inshore marsh with friends in Louisiana whenever I'm home (usually attending a Saints home game-WHO DAT?!) for the weekend.

I recently returned from a wing shooting trip in Argentina. What a blast!! Can't wait to go back!!

Just for fun: Is there something you would like to mention to the member community that they would be surprised to know about you?

Here's a unique bit of African American history. During Reconstruction in Macon County, Alabama, **Lewis Adams** (my great, great grandfather and a freed slave) established the foundation for a school as well as brokered its funding through the Alabama state legislature. The school is now known as Tuskegee University. In Tuskegee lore, he is considered to be the true founder of the university (not Booker T. Washington). **Charles Phillip Adams** (my great grandfather) was a Tuskegee graduate that returned to Louisiana and founded the Louisiana Negro Normal Institute which is now known as Grambling State University. I am proud that my paternal ancestors were directly responsible for the formal education of tens of thousands of African Americans.

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