

ONLINE



Communiqué

Summer/Fall Issue 2006

News in This Issue

President's Message

Strategy for the Future of Toxicology

The future of toxicology is being debated on many fronts. Since changes in toxicology will surely impact the Society of Toxicology, it is important that the Society prepare for those changes by assessing the needs and responsibilities of the membership. Indeed our professional responsibility goes beyond planning for the future of the Society but includes the responsibility for leadership in changes in the field of toxicology. Although the Council routinely re-evaluates the [Society's Long-Range Plan](#) each year, the 2005-2006 Council, under the leadership of **Ken Wallace** as President, determined that an in-depth review of our direction and organizational structure was warranted and that such an assessment should include a broader representation of the membership.

Between the summer of 2005 and January 2006, Strategy Committees were established to develop and advise the Council on future directions in the three major areas of Society activities and interests. While the following provides a brief reiteration of the original charge to each Committee, I urge you to learn more about these three important committees by reviewing the Web site.

The [Science Strategy Committee](#), chaired by **Cheryl Walker**, is responsible for the development of a "...strategy to most effectively promote the advancement of the science of toxicology to enhance human, animal and environmental health."

The [Membership Services Strategy Committee](#), chaired by **Patricia Ganey**, is responsible for the development of a "...strategy to provide the most effective and critical career resources that promote the professional advancement of all members of the Society."

The [Communications Strategy Committee](#), chaired by **Bernard Goldstein**, is responsible for developing a "...strategic plan to help SOT communicate more effectively both the value of toxicology as a science and of SOT as a scientific society, and to develop an action plan for the next 1-3 years and 3-5 years."

The final reports of the three Strategy Committees will be received by Council in April 2007. The

Council is currently refining approaches and developing a timetable to compare the recommendations of the three Strategy Committees, as well as planning an implementation process for recommendations. While there is a tremendous opportunity for us to collectively advance the Society and the field of toxicology through this effort, we must remain cognizant of the fact that the establishment of priorities for implementation of recommendations will be required. I urge all members of the Society to learn more about the Strategy Committees through the Web site and to provide comments to the Strategy Committee members and to Council as this activity progresses. I am confident that the collective input—starting with the Strategy Committees, followed by the deliberations of Council, and supported by comments from the membership—will result in a more effective and efficient SOT contributing to the advancement of toxicology in general.

Sincerely,

James A. Popp, D.V.M., Ph.D.

2006-2007 SOT President

Hoping to Hear from You: A Special Message from the Communications Strategy Committee

Communication is critical to any relationship. The SOT Council has recognized that without effective communication, much of the successes of the Society toward advancing the science of toxicology will go unrecognized by its key stakeholders. Further, without a clear and consistent communication strategy, the SOT may be perceived as contributing little value to our core purpose of enhancing human, animal, and environmental health.

To ensure that vital communications continue in the SOT, the Communications Strategy Committee (CSC) was formed last spring by then President Ken Wallace. The CSC was charged with overseeing the development of an action plan to help the SOT communicate more effectively both the value of toxicology as a science and of the SOT as a scientific society. Ideally, the resulting plan will help the SOT forge stronger relationships among its members, with fellow scientists in other disciplines, with key regulators and public policy decision makers, with media representatives, and with the public. The CSC was given significant help from the fruits of the efforts of the Communications and Liaison Society Task Forces. In addition, to aid in plan development, a communications specialist has been retained to serve as a consultant to the SOT and to facilitate CSC meetings.

Since its inception, the CSC has devoted considerable time and effort evaluating the current status of communication channels and constructing a strategic framework that addresses the communication challenges facing the SOT. Our consensus is that the SOT as an organization is not fully meeting the challenge of rapid response to media and additionally is not doing a good job of proactively communicating the value of the science of toxicology.

Communicating the value of toxicology will take the efforts of every Regional Chapter, Specialty Section, and Committee. During September, a leadership survey will be conducted to determine how SOT can best do this. In addition, an SOT communication strategy must include personal efforts by every member. The CSC would like to empower every SOT member to serve as an ambassador for the SOT and the discipline of toxicology.

The CSC recognizes that there is increasing competition for your time and professional affiliation; however, we need your input to determine how best to serve your needs. A broad membership communications survey is planned for this winter, but in the mean time, the **CSC would like input on the reasons that you identify yourself professionally as a toxicologist and belong to the Society for Toxicology.** (Some suggestions from members of the CSC include the following: advancing basic science, integrating diverse disciplines to solve multi-dimensional problems, and translating basic science to relevant applications such as discovery of new drugs or risk assessment of environmental contamination.) By September 30, please send your response by e-mail to [Shawn Lamb](#).

We will compile your responses and provide them as part of our final report as well as consider the input carefully in development of our final plan. Thanks in advance for your participation!

SOT Holds Successful Congressional Science Briefing on Need for Nanomaterials Research



John Bucher delivers presentation during briefing

On September 7, SOT held two Congressional Science Briefings on "Evaluating Environmental and Human Health Risks from Nanomaterials." A noon briefing and luncheon in the Rayburn Building drew more than 50 participants from the offices of House representatives as well as federal agencies involved with nanotechnology research, standard setting, and applications. A Senate briefing and reception in the Russell Building attracted participants from the Committee on Commerce, Science, and Transportation, public health agencies, and legislative assistants.

Michael Holsapple, Executive Director, ILSI Health and Environmental Science Institute (HESI), and SOT Councilor, welcomed the attendees to the briefing and provided an "[Introduction to Nanotechnology](#)." **Kristen M. Kulinowski**, Rice University, Department of Chemistry, presented "[Nanotechnology: Balancing Benefits and Risks](#)." Dr. Kulinowski is the Director of the International Council on Nanotechnology at the Center for Biological and Environmental Nanotechnology. **John Bucher**, Deputy Director, Environmental Toxicology Program, National Institute of Environmental Health Sciences, Research Triangle Park, NC, described efforts needed for "[Evaluating Human Health Risks from Nanomaterials](#)."

SOT's Regulatory Affairs and Legislative Assistance (RALA) Committee organized this briefing. If you have suggestions for future briefings (in your region or DC), please contact RALA Committee Chairperson, **Ruthann Rudel** (access the [Membership Directory](#)) or [Marcia Lawson](#).

Learn More about New Nanotoxicology Specialty Section

A new Specialty Section for Nanotoxicology has been approved by the Society of Toxicology Council. An organization committee will be formed with representatives from academia, government, and the private sector. The development and use of nanomaterials in the workplace and in consumer

products is expected to increase exponentially over the next several years. Thus there will be an increasing level of toxicological research necessary to evaluate the potential human health and environmental effects of nanomaterials. The Nanotoxicology Specialty Section will provide a forum for the interaction and collaboration of individuals involved in research on the pharmacokinetics, toxicity, exposure assessment, and risk assessment of nanomaterials. The objectives of the Nanotoxicology Specialty Section will be to: 1) address questions regarding the design of appropriate toxicological studies for evaluating the toxicity of nanomaterials, 2) develop the most appropriate dosimetrics for evaluating nanomaterials *in vitro* and *in vivo*; 3) develop batteries of screening studies for evaluating the toxicity of nanomaterials and for extrapolating the findings from *in vitro* assays to the *in vivo* situation, 4) communicate what information is necessary and the types of research that will provide the most comprehensive data for conducting risk assessments of nanomaterials in the future; 5) conduct programs and educational activities which emphasize current developments and issues in nanotoxicology; and 6) relate the developments in nanotoxicology to the activities of the Society of Toxicology to stimulate interest and growth in nanotoxicology as it relates to the general science of toxicology. In addition, through the activities of the Specialty Section, there will be many opportunities for toxicologists and other SOT members to learn more about the exciting developments in the field of nanotoxicology. For more information, please contact **Annette Santamaria** or **David Warheit** (access the [Membership Directory](#)) or [Marcia Lawson](#).

Authors of *Toxicological Science* Articles Often Ask "How Can I Find Out If My Article Has Been Cited?"

The answer can be found by visiting the [Journal Web site](#). SOT members log-in to *ToxSci* through the [SOT Web site](#), though you need not be a member or a subscriber to take advantage of these features.

Under the heading of "Reader Services" on the Oxford *ToxSci* homepage, you will find a link to access the "50 Most Frequently Cited Articles." These rankings are recalculated at the beginning of every month based on citations to *ToxSci* articles from articles in *ToxSci* and other HighWire-hosted journals. The most frequently cited article as of July 2006 is:

Akiko Enomoto, Ken Itoh, Eiko Nagayoshi, Junko Haruta, Toyoe Kimura, Tania O'Connor, Takanori Harada, Masayuki Yamamoto, **High Sensitivity of Nrf2 Knockout Mice to Acetaminophen Hepatotoxicity Associated with Decreased Expression of ARE-Regulated Drug Metabolizing Enzymes and Antioxidant Genes**, *Toxicol Sci* Jan 01, 2001; 59: 169-177.

The on-line journal also offers CiteTrack services, which are freely available to all visitors. To sign up, click on "CiteTrack," which appears on the [Journal homepage](#) under "Alerting Services." You will simply need to provide an e-mail address for your alerts. You can then sign up to track topics and authors in *ToxSci* and in any of the participating journals.

You will receive an e-mail alert whenever new content is published that matches criteria based on the topics, authors, and articles you decide to track. You can even be alerted whenever a *ToxSci* paper you authored is referenced by another paper or letter.

CiteTrack alerts will include citations and URLs for articles matching your criteria. You can

customize your alerts to control how many articles you want to see cited in each alert and whether it is delivered in plain text or HTML format.

The next time you visit *ToxSci* on-line, consider signing up for CiteTrack.

Shelley Andrews

Executive Editor

Oxford University Press

Pilot Post-Doctoral Mentoring Program to Be Launched

SOT's Career Resource and Development (CRAD) Committee is preparing to begin a pilot Post-Doctoral Mentoring Program. The idea initially was proposed by **Tom Kawabata**, a member of this Committee, and **Jim Luyendyk**, then President of the Post-Doctoral Assembly (PDA). The objective of this program is to provide a service that matches Post-Docs with potential mentors from the SOT membership to provide advice on career path selection and success. Dr. Kawabata will continue to coordinate this pilot program and will be working with the PDA on the development of appropriate questionnaire and survey tools. The program is being designed to provide post-doctoral fellows with a better understanding of potential career paths in the area of toxicology. Mentors will share information to expand understanding of what scientists do in various careers and the advantages and disadvantages of each career path. It is anticipated that this program will begin in the fourth quarter of this year and additional information will be provided in the Winter issue of the *Communiqué* or you can contact [Marcia Lawson](#).

Are You Prepared?

Our recognition of the devastating outcomes of hurricanes has been reinforced with the year anniversary of Hurricane Katrina. However, natural disasters can strike anywhere, and we should remember that earthquakes, tornadoes, floods, fires, and many other acts of nature can be just as serious. There are precautions that every citizen should take, as well as special considerations for scientists. The Career Resources and Development (CRAD) Committee has been charged with developing a strategy for SOT to respond to emergencies and provide support for members who may fall victim to nature's mercilessness.

Think about all the utilities and resources that you take for granted: ATMs to take out cash any time, gas stations open most of the day, pharmacies and grocery stores being open for business, etc., and then realize how all those conveniences depend on power. Likewise, your frozen tissue samples, animal housing, desktop computer, as well as, system networks, etc., may require back-up generators to keep them going; however, these may not last for long. Since preparedness is the best defense, we have compiled a sample of practical measures to adopt. Many of these actions should become normal practice. For example,

For your home:

- Maintain a well-stocked first aid kit, including antibacterial wipes

- Don't let your gas tank approach empty
- Keep a stash of cash (e.g., \$100) in the house
- Keep three gallons of potable water per person in the house; fill bathtubs if a severe storm is coming
- Maintain some canned or non-perishable foods that don't require heating
- Videotape, photograph, or compile a list of belongings; keep in a secure location
- Have food, leash, and carrier for pets
- Keep a portable radio and flashlight, with extra batteries
- Maintain a week's worth of medications
- Have plan for family members to come together before and after evacuation
- Know when and how to drain water pipes

For your laboratory:

- Analyze experimental samples as soon as possible, consider splitting samples and keep in separate places
- Keep updated inventory of biological samples, cultures, chemicals, etc.
- Have a reliable back-up system for all your computer data; keep multiple copies
- Keep a written list of phone numbers for critical contacts, including SOT
- Have plan for laboratory members to get in contact after the immediate crisis is over
- Keep equipment information in a safe place for repairs or insurance purposes
- Review your facility's capabilities for emergency power systems

CRAD is considering broadening the scope of preparedness to other emergencies. For example, the potential bird flu pandemic may have a substantial impact on SOT members. Sites for information include www.PandemicFlu.gov and www.cdc.gov/flu/avian/.

After an emergency has passed, there may still be long-term issues with which to deal. After the 2005 hurricanes, SOT set up a [Disaster Response Web site](#) with a bulletin board, messages to members, and links to other national Web sites. SOT also delayed abstract deadlines and lowered registration fees for those hardest hit by Hurricanes Rita and Katrina. Additionally, potential member services include facilitating the location of alternative worksites and/or laboratory resources to minimize loss of research, volunteer efforts, and linking members with the needed resources. CRAD will be working with the Society to improve the Disaster Response Web site and provide these services. We ask for your input on how we can best serve the members of SOT. Please contact the [CRAD Committee](#).

Annual Meeting News

Important Deadlines

[Abstract Submission—Oct. 3, 2006](#)

[Award Nomination—Oct. 9, 2006](#)

[2007 Annual Meeting Registration](#)

Early Bird Registration—Jan. 31, 2007

Standard Registration—Feb. 28, 2007

Cancellation—Mar. 21, 2007

[Housing Reservation—Feb. 21, 2007](#)

SOT Selected Charlotte with You in Mind

Charlotte combines the sophistication of a cosmopolitan city with historic Southern charm—but that is not the only reason Charlotte was chosen as the site for the 2007 SOT Annual Meeting.

- It's economical for attendees — readily accessible from a number of locations;
- It's close to major universities in North Carolina and in surrounding states—students and mentors can more easily attend; and
- It's a central location for government research scientists from North Carolina, the DC Metropolitan area, and Atlanta. For many, traveling to Charlotte requires only a short flight or a manageable automobile trip.

These are just a few of the reasons to plan on attending the annual meeting in Charlotte. Because many of you will want to seize this opportunity, be advised that accommodations close to the Convention Center are reserved on a first-come, first-served basis. You are encouraged to visit the [Housing Reservations](#) service from the SOT Web. Site.

2007 Annual Meeting Site Available

Visit the [2007 Annual Meeting site](#) for up-to-the-minute information. The site offers instructions and forms for submitting an abstract, a full listing of Continuing Education courses, and scientific program information. The meeting registration, housing, room sharing, tour, and ancillary meeting forms are easy to use and accessible from the site. You are encouraged to visit the site regularly as new information is provided as it becomes available.

Visit [ToxExpo™](#) to sign up for a premier spot at ToxExpo 2007 and be a part of the largest gathering of industry, governmental and academic toxicologists.

Communications Strategy Committee Plans 2007 Annual Meeting Session to Highlight Local Issue

Since communication develops in concentric circles, beginning with person-to-person, continuing to groups with whom you have an affiliation, and continuing to local and national communication channels, the Communications Strategy Committee (CSC) has recommended to Council that at least one session of local interest to the host region be held at each SOT Annual Meeting. The focus on an issue that is a regional concern is likely to draw press from local newspaper, radio, and television outlets and will reinforce the role of toxicology in enhancing human, animal, and environmental health to the host region.

The session approved by Council for presentation at the 2007 Annual Meeting in Charlotte is "*Pigs and the Public's Health: An Assessment of Hog Farming in North Carolina.*" Hog production in North

Carolina has recently transformed from a system dominated by small independent farmers to a large-scale agribusiness, and is one example of an expanding class of confined animal feeding operations (CAFOs) which produce high concentrations of chemical and biological waste. Exposure scenarios include two categories: routine releases and releases during extreme climatic events. The hog CAFOs in North Carolina are concentrated in the coastal plain region that is sensitive due to low-lying flood plains and high water tables.

Officials in the state are attempting to understand the benefits that such operations might bring in the face of a declining tobacco and manufacturing base relative to the costs from ecosystem impacts and the reduction of human health and quality of life for those working or living near hog CAFOs. Ecological, epidemiological, and occupational studies suggest a variety of respiratory, gastrointestinal, and neurological health effects due to exposures from CAFOs. These results have spurred an effort to locate more environmentally-sustainable technologies that will reduce these risks. As part of that effort, North Carolina and other states have attempted to apply risk assessment approaches to develop health-based quantitative limits that the technologies must reach with respect to the various contaminants.

This symposium will describe the public health problems posed by CAFOs and then consider how toxicological sciences can contribute to the risk assessment efforts by translating mechanistic data from *in vitro* and animal test systems to inform inferences made from observations at the population level in humans. Both chemical and microbial contaminants will be considered by a panel of experts from relevant toxicological disciplines. Researchers from the three major local institutions have been invited to participate.

2007 Call for Abstracts—Deadline October 3, 2006

The SOT Program Committee invites the submission of abstracts for Poster and Platform presentations at the Society of Toxicology 46th Annual Meeting to be held March 25-29, 2007, in Charlotte, North Carolina.

All 2007 abstracts will be submitted electronically via the SOT Web site. Electronic submission began August 1, 2006. The deadline for submission is 11:59 P.M., Eastern Standard Time (EST), **October 3, 2006**. The fee for submission is \$40. To submit an abstract, please review the instructions by visiting the ScholarOne [On-Line Abstract Submission site](#).

Please be sure to read the Frequently Asked Questions (FAQ) document to assist you in submitting an abstract for the 2007 Annual Meeting. To access this [FAQ](#), please click the preceding link.

If you have questions or need further assistance to submit your abstract, please contact [Nichelle Sankey](#) at SOT Headquarters.

Free CE Courses for Graduate Student and Post-Doctoral Fellow Volunteers!

Each year, the Society of Toxicology (SOT) Continuing Education (CE) Committee provides an opportunity for graduate students and post-doctoral fellows to assist with up to two CE courses at the

SOT Annual Meeting.

Three to four volunteers are needed for each course. Responsibilities include attendance at an orientation meeting and preparation of some materials Saturday evening (March 24, 2007) before the Sunday courses (March 25, 2007), as well as collection of admission tickets, distribution of course materials, and collection of course evaluation forms on the day of the courses. In return, volunteers are not charged for attending the courses and receive a syllabus of their choice for each course for which they volunteer, as well as an opportunity to network with the speakers and the CE Committee over complimentary lunch.

To review the 2007 CE course descriptions, please visit the SOT [Annual Meeting Web site](#).

If you are interested in volunteering, please contact **Leigh Ann Burns Naas** (access the [Membership Directory](#)) or complete the [Volunteer Form](#). Please be aware that there is a limit to the number of volunteers that we can accept, and participation will be offered on a first-come, first-served basis. Additionally, we will make every effort to accommodate volunteers with their first or second course choices, but these cannot be guaranteed.

SOT Undergraduate Education Program: Volunteer Opportunities for Students, Post-Docs, and Other Scientists at the SOT Annual Meeting



Graduate students, post-docs, and other scientists make an important contribution to the SOT Undergraduate Education Program by serving as mentors for the three-day program. During this time the undergraduate participants are organized into groups, each led by a scientist Host-Mentor and graduate student Peer Mentor. The Hosts and Peer Mentors arrive Saturday, March 24, 2006, and meet their groups during the evening reception. During the program, the groups will investigate the field of toxicology, interact with poster presenters, learn about toxicology as

a career, and explore options for graduate school. Hosts meet at various times with students from Saturday evening through the afternoon on Monday to put the students at ease, discuss what a career as a scientist is like, answer questions, help students find the rooms for their sessions, review posters, and visit the exhibit hall and scientific sessions together. The Peer Mentors are with the groups throughout the program, and serve as the key component for a successful group. This is a rewarding opportunity to mentor students.

We also invite directors of academic toxicology programs and research experience sponsors to staff an information table about their programs on Sunday afternoon, March 25. Research internship sponsors and academic toxicology directors showcase their programs in an open session Sunday afternoon. We provide the table. You display your program materials and be at hand to answer questions about graduate school, research opportunities at your institution, and discuss other concerns of these bright potential graduate students.

The Undergraduate Education Program is organized by the Committee on Diversity Initiatives (CDI). SOTs support for the Undergraduate Education Program for Minority students is supplemented by

funding from NIH-MARC grant 2 T36 GM08397, Chevron-Phillips, Covance, Johnson and Johnson Pharmaceutical Research and Development, Pfizer, and others. We appreciate all the SOT members and other supporters who make this program possible.

To volunteer, please contact CDI chair Vicente Santa Cruz or Betty Eidemiller bettye@toxicology.org at SOT Headquarters.

Committee for Diversity Initiatives Call for Speakers

In an effort to increase diversity and inclusiveness of SOT (one of SOT's strategic goals), the Committee on Diversity Initiatives (CDI) announces its newest initiative. The **Guest Lecturer in Toxicology** initiative will fund travel costs for toxicologists (minority or not) to visit target undergraduate institutions (student body predominantly minority or groups otherwise underrepresented in the sciences) to present lectures and career information. The speakers will give a 1-hour lecture on their research topic or a general toxicology talk, geared towards an audience with a broad background. The speaker will give an additional presentation using materials provided by the CDI. **Up to 7 travel awards at \$500 each will be awarded. Regional Chapters are especially encouraged to apply!** For more information and application forms, please contact [Betty Eidemiller](mailto:Betty.Eidemiller).

Submit Award Nominations by October 9th

SOT presents several prestigious awards each year in recognition of distinguished toxicologists and students. In addition to receiving the specific award, a plaque and generous stipend, recipients are honored at the Awards Ceremony at the SOT Annual Meeting, and their names are listed in SOT publications. The Awards Committee reviews applications and selects the winners for most SOT Awards and Sponsored Awards. The Best Paper Awards are reviewed by the Board of Publications.

The on-line nomination process, which is available for SOT-Sponsored Awards, is easy to use and it takes less than 15 minutes to submit your nomination. Nominations for most of these awards must be submitted by a sponsor and a seconder who are full members of SOT. The supporting documentation must indicate the candidate's achievements in toxicology and is critical in the review of each candidate. Refer to the award descriptions to learn if a specific award nomination can be submitted through the [Awards Nomination On-Line system](#).

Most student award applications are still paper-based, but all forms can be downloaded from the SOT Web site. The exception is the [Graduate Student Travel Award application](#), which is completed on-line. For more information and applications, please visit the [Awards and Fellowships section](#) of the SOT Web site.

Regular Features

Member News

Lehman-McKeeman Receives Toxicology Forum Award



Lois D. Lehman-McKeeman received the Toxicology Forum's prestigious George H. Scott Memorial Award, which was presented to her by **David Longfellow**, President of the Toxicology Forum, on July 11, 2006, in Aspen, Colorado. Dr. Lehman-McKeeman is a Distinguished Research Fellow in Discovery Toxicology at the Bristol-Myers Squibb Company where she is responsible for leading investigative toxicology research in drug discovery and development. She received the SOT Achievement Award in 2003 and has served as the editor of the Society's *Toxicological Sciences* journal for the past three years.

In conferring this award, the Toxicology Forum noted that "Dr. Lehman-McKeeman is being honored because of her extensive and productive research activities that have contributed greatly to our understanding of the mechanisms of action of toxic chemicals and drugs, particularly her work on d-limonene, musk xylene, coumarin, and ethanolamines. She also was a major contributor to the team that shed light on the role of alpha-2u-globulin in the relationship between hyaline droplet nephropathy and male rat renal carcinogenesis.

George H. Scott, a Procter & Gamble scientist who gained worldwide respect for his tireless efforts and contributions in the fields of human and environmental toxicology, is remembered through an annual award established by The Toxicology Forum in 1983. The award is given to those who have demonstrated an outstanding role in developing and applying the science of toxicology and honors the memory of George H. Scott.

Student Advisory Committee Reorganization and Award Announcements

*Submitted by **John Norman**, 2006-2007 SAC Chairperson*

Reorganization

The Student Advisory Committee (SAC) has been diligently working towards several initiatives to better serve the student members of SOT. Chief among these initiatives is the planned reorganization of the SAC. Currently, the SAC is comprised of student representatives elected from the SOT Regional Chapters (RC) with the leadership of a Chairperson, Co-Chairperson and Secretary. Three years ago the SAC instigated the creation of a subcommittee consisting of student representatives from each of the Specialty Sections. A member of SAC serves as the coordinator for the Student Specialty Section Representative Committee (SSSRC).

The SSSRC began with only 5 representatives and now boasts a complement of 16 student representatives, hailing from most of the SOT Specialty Sections. With the expansion of the SSSRC and the difficulties inherent in coordinating a large entity, the SAC is proposing that both the SAC and SSSRC be replaced with a Regional Chapter Graduate Committee (RC-GC) and a Specialty Section Graduate Committee (SS-GC). The formation of these two groups will afford greater latitude to the RC-GC and SS-GC to pursue programs tailored to their specific student membership's needs.

In logistical terms, both graduate committees will function in a similar manner to the current SAC and will elect members to the executive positions of Chairperson, Vice-Chairperson, and Secretary. These two graduate groups will be coordinated by an oversight body composed of the six executives from the RC-GC and the SS-GC. The oversight body, the Student Advisory Council, will ensure that the two groups work in unison to serve the student members of SOT. The reorganization will be fully implemented with the new officer cycle next spring.

Awards and Announcements

The SAC would like to remind all student members of SOT to apply for the SOT 2007 Awards. A [full listing and description](#) can be found on the SOT Web site. The deadline for applying is **October 9, 2006**.

In addition to applying for SOT awards, student members should apply for membership in one of the many Specialty Sections. A Specialty Section is a great way to stay informed on toxicological issues, foster professional connections, and to meet fellow students interested in the same area of research as you are. [Specialty Section descriptions and information](#) on joining can be found on the Web site. The best part about joining a Specialty Sections is that the first one is **FREE!**

Update from the Post-Doctoral Assembly

Kristen Mitchell and Jennifer Duringer

The Post-Doctoral Assembly (PDA) Board for 2006-2007 took office on May 1, 2006. Chair **Jennifer Duringer** was joined by Co-Chair **Michael Panagiotidis**, Secretary/Treasurer **Aaron Rowland**, and Councilor **Kristen Mitchell**, as well as **Scott Burchell** (Council Liaison) and SOT staff **Betty Eidemiller**. The new Board has had its first conference call already and has been hard at work bringing post-docs the resources and opportunities they need! Action items we have been working on consist of the following:

- Updating the [PDA Web site](#) including links to funding opportunities for post-docs and new investigators; an on-line version of the [Spring 2006 PDA newsletter](#); and [officer biosketches](#). Minutes from the most recent conference call held by the PDA Board on July 10, 2006, will be available soon.
- Do you know the average time a current SOT post-doc has been in post-doctoral training? What do post-docs want most out of SOT? The answer to these and other tantalizing questions can be found at the PDA Web site where we have posted the results from our ["Survey of the Post-Doctoral Experience."](#) Thank you to everyone who completed the survey! We hope to make this a yearly event for the PDA so that we can continue to have the most up-to-date information on SOT post-docs.
- Based on numerous suggestions and responses from the survey, the PDA Board plans to move the Post-Doctoral Event, which was held Sunday evening at the 2006 Annual Meeting, to a weekday lunch hour at the 2007 Annual Meeting, so that we may better accommodate the schedules of many post-docs attending the meeting.
- Regional Chapters and Specialty Sections are beginning to elect/appoint post-doctoral representatives. The PDA is working on fleshing out the roles of these representatives in relation to the PDA, with the main objective of enhancing communication of post-doc needs.

If you have any suggestions for the PDA, we would love to hear from you! Please e-mail us at sothq@toxicology.org.

PDA Chair Attends National Post-Doctoral Association Annual Meeting

Jennifer Duringer, PDA Chairperson

One of the many ways in which the Board of the Post-Doctoral Assembly (PDA) and SOT Council ensure that programs and issues of interest to post-docs are being addressed is to send one individual to the National Post-Doctoral Association's (NPA) annual meeting each year. This past April 21-23, **Jennifer Duringer** (PDA Chair) attended the meeting, which was held at the NIH campus in Bethesda, MD. Of special interest to the PDA was the release of a document titled "Recommended Postdoctoral Policies and Practices for Disciplinary and Professional Societies."

This new document provides guidance to disciplinary and professional societies in addressing the training and professional development needs of post-doctoral scholars, while also encouraging the systematic collection of data on post-doctoral members of the societies.

In brief, the recommendations are as follows:

- Create a post-doctoral membership category.
- Provide career development resources for post-doctoral members.
- Create a post-doctoral committee and/or appoint post-doctoral representation on other committees.
- Appoint a designated staff member or other liaison for post-doctoral affairs.
- Provide opportunities for post-doctoral members to interact with senior society members for the purposes of networking and informal mentoring.
- Collect, analyze, and report data regarding the status and professional development of post-doctoral members on a regular basis.
- Address post-doctoral training policies as part of society advocacy efforts.

As you can see, the PDA and SOT are already hard at work in each of the above categories! If you have any suggestions or would like to help further the PDA's development of any of the above goals, please feel free to contact any of the Board members at sothq@toxicology.org. In addition, you can visit the [National Post-Doctoral Association's Web site](#). It is full of useful information for post-docs and administrators alike.

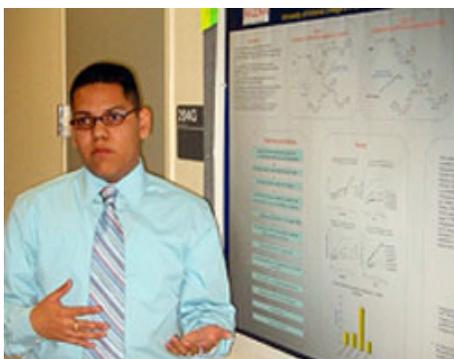
Kleiner Makes Career Visit to Minority Access to Research Careers Program

Heather Kleiner (Committee on Diversity Initiatives, CDI, and SCCSOT member) visited the University of Arizona, Tucson, last spring to meet with students from the NIH Minority Access to Research Careers (MARC) program. She had responded to a call for scientists to visit MARC programs. The MARC program at UA is directed by Professor **Marc Tischler**, Biochemistry & Molecular Biophysics. This program offers a unique research, mentoring, financial, and academic opportunity for underrepresented minority students who have interest and potential to pursue careers in biomedical research. The program includes training and financial support for the last two years of enrollment at UA, and provides financial benefits including tuition and fees support; health insurance;

monthly stipend, and funding to attend national scientific meetings and to seek a summer research experience outside the UA. In addition, Associate Dean **Maria Teresa Velez**, Graduate College, assists students with preparation for the Graduate Record Exam and applying to graduate schools and for graduate fellowships.



Dr. Tischler invited Dr. Kleiner to present a seminar of her research entitled "Chemopreventive effects of citrus/ginger compounds on breast and skin cancer." She also met with each student in the program. "I was very impressed with the students and with the mentoring they receive in the MARC program. The students were so enthusiastic about scientific research. Some of them are already doing research in toxicology, such as **Rachel Diaz** in **Dr. Jay Gandolfi's** laboratory." The students are just now returning from their summer internships from



Mayo, Vanderbilt, UIC, Johns Hopkins, UCSF, NIH, and NIDDK. "It's just amazing to think about the obstacles that these students had to overcome. One student, **Omar Contreras**, told me he was the first in his family not only to attend

college, but also to finish high school! From these humble beginnings, Omar is the star of his mother's eye, ready to embark on a scientific career. What I learned from this experience was so amazing. Many of the student's families and cultural ties have a hard time understanding why they would get advanced degrees instead of working after college. These students are so smart, and they aim high. The MARC fellowship gives them the fertile ground they need to achieve those dreams."

As a member of CDI, Dr. Kleiner encouraged students and mentors to apply for the **Minority Undergraduate Program**. Dr. Kleiner stayed in Tucson to visit with her graduate mentor, **Dr. Serrine Lau**, and the other members of the College of Pharmacy and the Arizona Cancer Center. Also a first-generation college graduate, Dr. Kleiner said, "I am so fortunate to have had the mentoring and encouragement to finish my Ph.D. Now I want to give something back." She is now an Assistant Professor and the graduate school recruiter for the Department of Pharmacology, Toxicology and Neuroscience at Louisiana State University-Health Sciences Center and Feist-Weiller Cancer Center in Shreveport, LA.

Watching Washington

Annual AWA Report Signature No Longer Posted by USDA

Animals in Research Committee

In the United States, the Animal Welfare Act (AWA) regulates the care and use of animals in many areas, including animal research. The Act has been modified and updated several times since its adoption in 1966, and currently covers all warm-blooded animals except rats, mice, birds, and farm animals used in food and fiber research. The Animal and Plant Health Inspection Service (APHIS), a division of the United States Department of Agriculture (USDA), oversees compliance with the Act. APHIS maintains a pool of investigators who inspect animal research facilities at least once a year and report their findings to the USDA. Those not in compliance with the Act may be fined or have their licenses revoked. The AWA also requires that each institution establish an Institutional Animal Care and Use Committee (IACUC), which is responsible for evaluating the total animal care program, as well as for scrutiny of all proposed animal experiments. As required by section 13, Policy #17 of AWA, each reporting research facility shall submit an annual report, verifying compliance and indicating the number and species of animals used, to the animal care regional office responsible for the state in which the facility is located. These forms are required to be signed and certified as correct by the Chief Executive Officer or legally responsible Institutional Official and must include all species covered by AWA used in research or for teaching and those on hand at the end of the fiscal year.

These annual reports are posted by USDA on their animal care Web site and are accessible to the public. USDA first began posting such reports on October 1, 2001 as part of its compliance with the Electronic Freedom of Information Act (E-FOIA) Amendments. However, this practice was halted in 2002 in response to heightened security concerns as a result of the September 11, 2001, attacks and a growing appreciation for the threat posed by animal rights extremists. In January, the Department of Justice issued a ruling that opens the way for USDA to resume posting reports of AWA annual reports on its Web site. These annual reports bear sensitive information such as inspectors' names and room locations within research facilities, which could be utilized by extremist groups. It has been shown that animal activists use the Internet to obtain information on institutions that use animals, and identify potential targets.

Biomedical research organizations, including the National Association of Biomedical Research, strongly protested against this decision, arguing that these documents might provide unnecessary information that could make the facility or an individual scientist a target. USDA has just announced that it is no longer posting the names and signatures of the Institutional Officer in the AWA report on their Web site. This is another significant accomplishment for the biomedical research community. This move will hopefully help reduce crimes against biomedical research institutions, organizations, and people associated with them.

Regional Chapters and Specialty Sections

Regional Chapter Presidents and Officers Hold Strategic Planning Meeting

The Regional Chapter Presidents and Officers held their second annual leadership meeting at the Sheraton Gateway Hotel in Chicago, IL, August 7-8, 2006. SOT Council Liaison **Jan Chambers** and SOT President **Jim Popp** served as facilitators for discussions related to the following:

- expanding and strengthening Regional Chapter activities;
- increasing awareness about the discipline of toxicology;
- providing suggestions for Regional Chapter activities that are currently underway or planned;

- attracting and increasing the involvement of undergraduate students, graduate students, and post-doctoral fellows in chapter activities; and
- conducting increased scientific outreach through meetings and workshops.

Regional Chapters were represented by attendees from every corner of the United States including **Maureen R. Gwinn** (Allegheny-Erie), **Yu-Jui Yvonne Wan** (Central States), **Yanan Tian** (Gulf Coast), **Ali Said Faqui** (Michigan), **John W. Kille** (Mid-Atlantic), **Robin Guy** (Midwest Region), **Matthew Campen** (Mountain West), **Suzanne Fitzpatrick** (National Capital Area Chapter), **Virginia Moser** (North Carolina), **George Alexeeff** (Northern California), **Thomas Brunshidle** (Northland), **August Wilke** (Ohio Valley), **Andrij Holian** (Pacific Northwest), **Martin Ronis** (South Central), and **Dave Hovland** (Southern California). **Essam Enan** (Southeastern) and **Joseph Rutkowski** (Northeast) were unable to attend. No representative attended on behalf of the Lake Ontario Regional Chapter. **Michael Holsapple**, SOT Council Liaison to the Communications Strategy Committee, provided information on this strategic committee.

The objective of this meeting was to provide an opportunity for networking and establishing contacts in other Regional Chapters and to exchange ideas and information about on-going programs. Attendees were encouraged to share major accomplishments as well as concerns and to offer solutions to challenges and forward ideas for new opportunities through a number of roundtable discussions during this meeting.

For example, Dr. Moser provided an overview of efforts underway by the Career Resources and Development Committee to develop an SOT Emergency Response and Preparedness Strategy that would provide web-based resources and also match people on a regional basis to provide practical, on-the-ground assistance, so that careers or training are minimally disrupted by disasters. She requested that each region consider how they could best participate in this effort and encouraged attendees to contact her for more information. Assistance organized through Regional Chapters will probably be of greater and faster help than assistance organized through the national SOT.

Representatives from the Regional Chapters expressed great interest in following the example set by the Ohio Valley SOT Teleseminar series. Approximately 90 call-in lines were used for the teleseminar on May 11, 2006, on "Cellular Responses to Endogenous Oxidative Damage" given by Larry Marnett of Vanderbilt University, with callers phoning in from across the United States. Also, a number of the regions with a large geographical area sought funding to support students who must travel long distances (4 hours of travel time or more) to attend chapter functions. Subsequent to this meeting, the SOT Council has provided funding for additional teleseminars and to underwrite student travel.

Drs. Chambers and Popp also encouraged meeting attendees to consider conducting Contemporary Concepts in Toxicology (CCT) Meetings. They explained that these meetings may be held as a satellite to the SOT Annual Meeting, as Specialty Section or Regional Chapter meetings, or may be held independently. In order to maintain the quality standards of the Society, only meetings in which SOT maintains scientific and administrative control will be considered as a CCT. Meetings developed and administered by other organizations, may be eligible for Non-SOT Meeting endorsement. Attendees were encouraged to visit the SOT Web site for further details.

Dr. Popp noted that the Regional Chapters are the front line where activities occur. He encouraged the

chapters to come forward with additional ideas and to help guide the Society and, thus, help balance organizational agenda-setting from being too "top centric." If anyone has suggestions or needs clarification of issues related to Regional Chapter activities, please contact Jan Chambers, SOT Council Liaison, (access the [Membership Directory](#)) or [Marcia Lawson](#), SOT Staff Liaison.

SOT Specialty Section Presidents and Officers Convene Leadership Workshop

The leadership of the SOT Specialty Sections gathered August 8-9, 2006, at the Sheraton Gateway Suites for a day and a half leadership workshop. SOT Council Liaison to the Specialty Sections (SS) **Michael Holsapple** and SOT President **Jim Popp** facilitated networking sessions that provided an opportunity for sharing the "crowning achievements" of each group as well as short- and long-term challenges. Meeting participants representing most of the Specialty Sections included **Carol Auletta** and **Maryka Bhattacharyya** (Women in Toxicology), **Frank Barile** and **George DeGeorge** (*In Vitro*), **Deepak Bhalla** and **Michael Foster** (Inhalation and Respiratory), **Harvey Clewell** (Risk Assessment), **Mitchell Cohen** and **Steve Pruett** (Immunotoxicology), **Michael Cunningham** and **Barbara Shane** (Carcinogenesis), **Jennifer Duringer** (Post-Doctoral Assembly), **Jim Green** (Regulatory and Safety Evaluation), **Bruce Hammond** and **Jay Vodela** (Food Safety), **Jerry Heindel** and **Rochelle Tyl** (Reproductive and Developmental), **David Hobson** (Dermal Toxicology), **Robert MacPhail** and **Christopher Newland** (Neurotoxicology), **Michael McCabe** (Metals), **Thomas McHugh** (Ethical, Legal and Social Issues), **Moiz Mumtaz** (Mixtures), **Daniel Ness** and **Wilson Rumbelha** (Comparative and Veterinary), **John Norman** (SAC/SSAC), **Gary Rankin** (Mechanism), **Karen Regan** (Toxicology and Exploratory Pathology), **Tom Sutter** (Molecular Biology), **Patricia Weideman** (Occupational and Public Health), **Craig Zwickl** (Biological Modeling), and SOT Staff **Marcia Lawson**.

Dr. Popp provided an overview of the SOT Program Committee and praised the Specialty Section leadership for encouraging refinements that have enhanced the Annual Meeting programs. In addition, he provided an overview of the strategic committees on Communications, Member Services and Science that will help SOT to meet the objectives described in the Society's Long-Range Plan. Following Dr. Popp's presentation, the topics he raised were the focus of a lively discussion during a working dinner.

During the second half of the meeting, Drs. Holsapple and Popp facilitated an effective roundtable discussion of the value of the Specialty Sections to the SOT membership.

There was consensus among attendees that the Specialty Sections were important for peer networking, career guidance, and as the key resource for the development of scientific sessions at the SOT Annual Meetings. Meeting participants concurred that the Specialty Sections also provided a forum to celebrate the students. John Norman, President, SOT Student Advisory Committee, and Jennifer Duringer, Post-Doctoral Assembly, focused on initiatives to encourage the integration of students and Post-Docs into the leadership of the Specialty Sections as was accomplished with the Regional Chapters.

Mr. Norman provided the projected new organizational structure for the proposed Student Advisory Committee. This new structure provides for two parallel Graduate Committees composed of representatives of the Regional Chapters and Specialty Sections, respectively. Council has enthusiastically endorsed this proposal because it provides increased leadership development

opportunities for the student members of the SOT.

Dr. Durringer provided an overview of the history and structure of the Post-Doctoral Assembly, which is a fairly recent SOT organization. She described the particular interests and needs of this group, which is comprised of early career investigators rather than graduate students. Furthermore, she noted that the Specialty Sections are the beneficiaries of the Society's decision to allow one free SS to each student and post-doc. Based on a recent PDA survey, 78% of those surveyed were SS members or sought additional information to join an SS. Over the coming months and years, it is anticipated the post-docs will take an increasingly active role in the Specialty Sections.

Dr. Holsapple encouraged the leadership of the Specialty Sections to plan and conduct programs to enhance their professional and scientific development by conducting SOT Contemporary Concepts in Toxicology (CCT) Meetings. He noted that two of the most recent CCTs focused on Mixtures and Risk Assessment and suggested meeting attendees visit the [CCT Meetings section](#) of the SOT Web site to gain a broader and deeper understanding of this SOT-supported activity, which is currently underutilized. A lively discussion followed, including the sharing of ideas that could be expanded to CCT Forums.

At the conclusion of this workshop, participants agreed the meeting had been a great success and had helped to improve the effectiveness of the Specialty Sections by providing an opportunity for the leadership to share experiences and to network.

In Memoriam

In Memoriam

Carol Ann Benkendorf
William Berndt
Emily Poulson
Randy L. Rose
Jack P. Saunders

Randy L. Rose
1954-2006

Dr. Randy L. Rose, a dedicated toxicologist and a member of SOT, was killed in a tragic traffic accident on May 23rd, 2006. Although he worked in many areas of xenobiotic research, his recent studies on the human metabolism of environmental chemicals used in agriculture, military deployments, and industry were important and significant. They brought new insights to the importance of this area and will serve to improve human health risk assessments for many years to come.

He received his BS and MS degrees from Utah State University and his Ph.D. degree from Louisiana State University. He came to North Carolina State University in 1988 as a post-doctoral fellow in the



Department of Entomology, moving to the Department of Toxicology when that department was founded in 1989.

Dr. Rose is survived by his wife, Eileen G. Rose; sons Brian Rose, Alan Rose, Gordon Rose, and Oran Rose; daughter Karin Rose, all of Clayton, NC; parents Wayne and Joyce Rose of Salt Lake City, UT; brothers Larry Rose, Keith Rose and Scott Rose all of Bountiful, UT, Craig Rose of West Jordan, UT and Glen Rose of Cedar Hills, UT; sister, Sharon Crockett of Highland, UT.

He was a dedicated and hard working member of the Church of Jesus Christ of Latter Day Saints, serving that church in many capacities. He was particularly dedicated to his family and to the young people of his church and community. An Eagle Scout, he served as a scout leader for 25 years and was a coach in the Clayton Little League program for 13 years. He will be missed by all whose lives he touched.

Emil Poulsen
1921-2006

SOT member Emil Poulsen of Humlebaek, Denmark, was a major force in the early years of the Toxicology Forum and in the development of the Forum's European meetings. He was the recipient of the George Scott Award and was conferred Honorary Member Status in the Forum and was a Fellow of the Academy of Toxicological Sciences. Dr. Poulsen was the Director of the Institute of Toxicology, Danish National Food Agency from 1968-86, and Chief Adviser in Toxicology, Danish Ministry of Health 1986-91. He died peacefully in his home 27 July 2006. For many years, Dr. Emil Poulsen, who turned 85 on the 12th of July, had been elected as a scientific expert for both FAO/WHO and EU and worked with international organizations such as The Toxicology Forum and ILSI. In this way, a whole generation of toxicologists world-wide learned to respect his great scientific knowledge and acknowledge his wisdom in scientific and human matters. Letters of condolence may be sent to Mrs. Ellen Poulsen, Gammel Strandvej 26, DK-3050, Humlebaek, Denmark.

William Berndt



William Berndt, Ph.D., former chancellor of the University of Nebraska Medical Center (UNMC), died on August 31 at The Nebraska Medical Center due to ongoing lung complications. Dr. Berndt, 73, joined UNMC in 1982 and held several key administrative posts over the next 20 plus years, serving as chancellor from 1996 to 1998. He was the seventh full-time chancellor in UNMC history and was one of the key leaders involved in the 1997 merger of University Hospital and Clarkson Hospital to create The Nebraska Medical Center. Dr. Berndt joined UNMC in 1982 as professor of pharmacology and dean for graduate studies and research and was elevated to vice chancellor for academic affairs three years later. Berndt served as vice chancellor until his retirement in 2002 with the 17-year stint interrupted only when he served as interim chancellor in 1991-1992 and chancellor in 1996-1998.

Prior to joining the UNMC faculty, Dr. Berndt served on the faculty at Dartmouth Medical School for

13 years and the University of Mississippi Medical Center for eight years. At Dartmouth, he moved from instructor to professor in the pharmacology department. He served as professor and chairman of the department of pharmacology and toxicology at Mississippi. Following his retirement as vice chancellor, Dr. Berndt remained active at UNMC, serving as interim chairman of the pharmacology department from 2002 to 2004. In addition, he chaired the search committees for a chairman of the department of the cell biology, anatomy and genetics in 2003 and for a chairman of the department of psychiatry in 2004.

A prolific researcher during his career, Dr. Berndt published more than 270 articles, abstracts and book chapters in scientific journals and made presentations or lectures at more than 70 scientific meetings. He received funding on 16 grants during his career. His professional and research interests involved both pharmacology and toxicology, in particular the effects of chemicals on kidney function. A member of SOT, he was also a diplomate of the American Board of Toxicology and a fellow of the Academy of Toxicological Sciences and the American Foundation for Pharmaceutical Education. A native of St. Joseph, Mo., Dr. Berndt received his undergraduate degree from the Creighton University College of Pharmacy in 1954 and his Ph.D. degree in pharmacology from the State University of New York at Buffalo in 1959.

Dr. Berndt is survived by his wife, Bonnie, and their five children, 13 grandchildren and one great grandchild. The Berndts, who lived in Fort Calhoun, Nebraska, celebrated their 52nd wedding anniversary on Aug. 28.

Placement Ads

Department of Health and Human Services

**National Institutes of Health
National Institute of Environmental Health Sciences
Research Triangle Park, North Carolina
Associate Director, National Toxicology Program**

The National Institute of Environmental Health Sciences (NIEHS) of the National Institutes of Health (NIH) is seeking exceptional candidates to fill the position of tenured investigator to serve as Associate Director, National Toxicology Program (NTP). The NTP is an interagency program whose mission is to evaluate agents of public health concern by developing and applying the tools of modern toxicology and molecular biology. This involves conducting toxicological evaluations of substances of public health concern, developing and validating improved (sensitive, specific, rapid) testing methods, developing approaches and generating data to strengthen the science base for risk assessment, and communicating with all stakeholders.

The NTP maintains a balanced research and testing program that provides data addressing a wide variety of issues important to public health. The NTP actively seeks to identify and select for study chemicals and other substances for which sufficient information is not available to adequately evaluate potential human health hazards.

The NTP relies upon voluntary allocations from the program's core agencies [NIEHS, FDA's National

Center for Toxicological Research (NCTR) and CDC's National Institute for Occupational Safety and Health] to support its research, testing, centers and outreach. The program focuses its resources upon three major program activities: toxicology studies, methods development and validation. Within each of these program activities, the NTP targets multiple areas broadly including genetics, toxicology, toxicological characterizations (includes immunotoxicology, epidemiology, exposure assessment and general toxicology), reproduction and development and carcinogenesis.

Candidates must have a Ph.D. or equivalent degree in an environmental health science discipline. Candidates should have extensive experience in toxicology with research contributions which advanced the field and administrative experience sufficient to lead a major applied research program. Additionally, the incumbent will have the option of leading an active research group within the Division of Intramural Research. Salary is commensurate with experience and level of accomplishments. An outstanding benefits package will be provided. A recruitment or a relocation bonus may also be available.

Interested persons should send a *curriculum vitae* with a statement of research/administrative accomplishments and plans, and arrange for three letters of recommendation to be submitted to the address below by **September 30, 2006**. Letters should be from leaders in the field who specifically address recommendation for a tenured investigator position at NIH. For more information concerning the National Toxicology Program, access <http://ntp.niehs.nih.gov/>

Ms. Stephanie Jones (DIR-06-05)
National Institute of Environmental Health Sciences
P.O. Box 12233, Maildrop NH-01
Research Triangle Park, NC 27709
(919) 541-7913 E-mail: jones17@niehs.nih.gov

HHS and NIH are Equal Opportunity Employers

Assistant/Associate Professor of Veterinary Anatomic Pathology (tenure track)

School of Veterinary Medicine, University of California, Davis

Veterinarian with advanced training in anatomic pathology required. Eligibility for certification by the American College of Veterinary Pathology required. Board certification preferred. PhD required at time of appointment. Clinical experience and competence in anatomic pathology. Demonstrated aptitude/experience in teaching. Documented research record or potential to develop an independent research program using contemporary technologies for the characterization of pathogenesis of disease at a cellular and/or molecular level is essential. Must possess excellent interpersonal and communication skills and a demonstrated ability to work with others in a collegial team atmosphere. To receive fullest consideration, applications must be received by **November 1, 2006**; position opened until filled. Expanded position description at <http://www.vetmed.ucdavis.edu/pmi/PMIpage1.htm>. Submit letter of intent outlining special interest in the position, overall qualifications, experience, and career goals; CV; and names and addresses of three professional references to **Dennis W. Wilson, Chairman, Department of Pathology, Microbiology and Immunology, School of Veterinary**

Medicine, University of California, Davis, Davis, CA 95616, Attn: Donna Roggenkamp. AA/EOE

Tenure Track Faculty Position in Ecotoxicology

Indiana University, Bloomington

Indiana University invites applications for a new tenure-track faculty position in ecotoxicology as part of a comprehensive new program in Interdisciplinary Environmental Sciences. The focus of this program is, in part, on the toxic effects of anthropogenic contaminants on ecosystems, including people. It is anticipated that this position will be in the School of Public and Environmental Affairs.

Successful candidates are expected to help lead the development of this Interdisciplinary Environmental Sciences program, including participating in the selection of future new faculty hires and the utilization and implementation of the Indiana University Research and Teaching Preserve. Successful candidates are expected to develop an extramurally-funded research program and participate in undergraduate and graduate teaching.

The applicant's expertise is expected to complement and strengthen existing faculty research and teaching in ecology, the atmospheric sciences, biogeochemistry, hydrology, environmental chemistry, or toxicology in the School of Public and Environmental Affairs and in the College of Arts and Sciences.

Applicants should hold a Ph.D. in a suitable field. The appointments are expected to be at the Assistant Professor level, but more a senior appointment is possible for an exceptionally qualified candidate. Information on the Research and Teaching Preserve can be found at <http://www.Indiana.edu/~preserve>.

Bloomington is located in the heavily forested hills of southern Indiana and is renowned for its attractive quality of life, cultural activities, and modest cost-of-living. Indiana University offers a comprehensive benefits program.

Review of applications will begin on **November 1, 2006**, and continue until the position is filled. Applications should include a curriculum vitae, a statement of research and teaching interests, and full contact information for three potential referees. Please submit application materials to:

Dr. Clinton V. Oster, Jr.
Associate Dean of Bloomington Programs
SPEA, Room 300
1315 E. 10th Street
Indiana University
Bloomington, IN, 47405-1701

For more information see <http://www.iu.edu/~speaweb/about/employment.php> Indiana University is an Equal Opportunity, Affirmative Action Employer, Educator and Contractor, M/F/D and strongly committed to achieving excellence through cultural diversity. The university actively encourages

applications and nominations of women, persons of color, applicants with disabilities, and members of other underrepresented groups.

Career Resource and Development Services:

[Job Bank: Career Resource and Development Service On-Line](#)