

# SOT Student e-Letter



**SUMMER 2010 EDITION**

**PUBLISHED BY THE STUDENT ADVISORY COUNCIL**

## A MESSAGE FROM THE STUDENT ADVISORY COUNCIL

Dear Students,

Welcome to the Summer edition of the SOT Student e-Letter! This biannual newsletter is published by the SOT Student Advisory Council (SAC) for graduate students. This newsletter contains information about the upcoming SOT Annual Meeting in Washington D.C., as well as important updates from Regional Chapters, Special Interest Groups and Specialty Sections. We are also including important information about Travel Awards and other news for student members of SOT.

*The Student Advisory Council*

### ABOUT THE SAC

Each Regional Chapter and Special Interest Group elects one graduate student member to represent their group in the Regional Chapter/Special Interest Group Graduate Committee (RC/SIG-GC). In addition, each Specialty Section elects a graduate student to serve on the Specialty Section Graduate Committee (SS-GC). The officers from the RC/SIG-GC and SS-GC form the SAC.

The SAC was created to provide student liaisons to the National SOT. Our job is to address the needs of students in the Society and to promote student participation and membership. If you are interested in learning more about the SAC, you can access our Web site at <http://www.toxicology.org/ai/spd/studentservices.asp#SAC> or you can just get in contact with one of us! See pages **13** and **20** for SAC contact information.



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### **Commonly Used Acronyms**

**SAC** – Student Advisory Council  
**RC/SIG-GC** – Regional Chapter/Special Interest Group Graduate Committee  
**SS-GC** – Specialty Section Graduate Committee

# Student Advisory Council Updates

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## **BECOME INVOLVED IN YOUR REGIONAL CHAPTER**

The SOT has 18 Regional Chapters whose purpose is to foster scientific exchange at the local level. These chapters sponsor regional meetings throughout the year that offer exceptional scientific programs, renowned speakers, and opportunities for student involvement in poster and seminar sessions. A list of the Regional Chapters and information on joining can be found at <http://www.toxicology.org/isot/RC/regionalchapters.asp>. Students can join Regional Chapters and enjoy the benefits without becoming members of the national Society.

## **SPECIAL INTEREST GROUPS**

SOT has established six Special Interest Groups (SIGs) to promote the recruitment of toxicologists who share a common interest in toxicological research with a common country of origin, ethnicity, and gender. The goals of these groups are to develop and conduct programs and opportunities that promote career development and recognize accomplishments of the toxicologists from within each SIG. Please visit <http://www.toxicology.org/isot/sig/sig.asp> for more information on SIGs. Students and postdoctoral fellows receive membership into their first SIG at **NO COST!**

## **JOIN A SPECIALTY SECTION**

The Specialty Sections of the SOT provide an invaluable opportunity for networking and interaction with scientists and professionals from various specialties within Toxicology. Specialty Sections (SS) are primary sponsors of many of the programmatic sessions during the SOT Annual Meeting. Students are highly encouraged to join an SS because not only can these groups provide students with opportunities for future employment and collaborations, but they also provide a platform for students to suggest scientific sessions and symposia for the Annual Meeting. Specialty Sections encourage student involvement by providing funds for competitive **student travel awards and best abstract awards** that recognize your accomplishments and hard work. Joining a Specialty Section is easy ... First, point your web browser to [www.toxicology.org](http://www.toxicology.org). Once you log in to the site, navigate to the Membership Renewal on-line option under Membership, and indicate which Specialty Section you would like to join. You can register for SS membership at any time during the year. And, while student membership is a steal at \$20/year, as an extra bonus, **your student membership dues for one SS per year are free!**

## **MESSAGE FROM THE OUTGOING SAC PRESIDENT:**

Greetings! Spring is upon us, and hopefully finals and qualifying exams are out of the way so that many of us can begin a productive summer. I hope that you all had a great experience at the SOT Annual Meeting in March!

The SAC worked very hard over the last year to improve our current events, and we will continue to do so in the future. This year's Student-Postdoc Mixer featured a Networking Bingo game to encourage everyone to meet new people, and we extended the length of the Mixer to encourage everyone to make new connections. This year's Lunch With An Expert (LWAE) was also a huge success. We had 85 Experts (more than any other year),

and nearly 200 students sign up to participate. We also cosponsored a Scientific Symposia with the Postdoctoral Assembly entitled "MAP Kinase Signaling: A Common Target Eliciting Unique Tissue Responses" that featured the work of five students and postdocs. We are currently working to submit another Symposia Session Proposal that will also feature student and postdoctoral fellow research.

This year we hope to create a series of Career Development Webinars that will be presented on a quarterly basis to help train the student members of SOT to be successful in their careers as toxicologists and scientists.

It is very rewarding for me and the rest of the SAC to be able to develop and organize activities and opportunities for the student members of the SOT. As the outgoing President of the SAC I would like to thank the SAC Officers Sheppard Martin, Ofek Bar-Ilan, Haitian Lu, Erica Rogers and Dan Hochman, as well as our Council Liaison Dr. Patricia Ganey and our Staff Liaison Dylan Amerine for an excellent and productive year. I'd also like to thank the students of SOT for participating in the events that we work so hard to create and for being such a great network of colleagues.

Erica Sparkenbaugh  
SAC President 2009-2010

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### **THREE STUDENT REPRESENTATIVES EARN OUTSTANDING LEADERSHIP AWARD FOR SERVING THE STUDENTS IN THEIR RC, SIG OR SS**

The SAC awards student representatives the Outstanding Leadership Award for going above and beyond the typical duties of a student representative by serving the students within their RC, SIG, or SS. This year we recognized Erica Rogers, Haitian Lu, and Prasad Krishnan as outstanding leaders from the Graduate Committees. Mrs. Rogers was recognized for her contributions to the Ohio Valley Regional Chapter by creating a Summer Student Meeting, Mr. Lu for his outstanding work with the Immunotoxicology Specialty Section, and Mr. Krishnan for his efforts in support of the Scientists of Indian Origin and on behalf of Indian students worldwide.

### **ANNOUNCING THE 2011 GORDON RESEARCH CONFERENCE ON CELLULAR AND MOLECULAR MECHANISMS OF TOXICITY**

*Lauren Aleksunes*

Are you looking to advance your training in toxicology, meet highly regarded scientists in the field, and have an opportunity to share your research accomplishments? If so, mark your calendar! There will be a Gordon Conference on "Cellular and Molecular Mechanisms of Toxicity" from August 7-12, 2011, at Proctor Academy, NH. Gordon Conferences are small, week-long meetings (typically less than 200 people) held around the world on focused research areas.

The 2011 Gordon Conference on Cellular and Molecular Mechanisms of Toxicity will present cutting edge mechanistic toxicological research underpinning key innovations in environmental, pharmaceutical, and industrial sciences and heralds an exciting period in the quest to predict and circumvent adverse drug and toxicant reactions. The Conference will feature a wide range of topics, such as inflammation and repair/adaptation, non-coding mRNAs, epigenomics, hepatotoxicity, neuroinflammatory diseases, individual susceptibility/adaptation together with new models of *in silico* and *in vivo* predictive toxicology. The Conference will bring together a collection of investigators who are at the forefront of their field, and will provide opportunities for junior scientists, postdoctoral fellows, and graduate students to present their work in poster format and exchange ideas with leaders in the field. Some poster presenters will be selected for short talks. The collegial atmosphere of this Conference, with programmed discussion sessions as well as opportunities for informal gatherings in the afternoons and evenings, provides an avenue for scientists from different disciplines to brainstorm and promotes

cross-disciplinary collaborations in the various research areas represented. Applications will be on-line at [www.grc.org](http://www.grc.org) from Feb 1, 2010, and will be accepted until July 17, 2011. Limited funds may be available for student and postdoctoral fellow cost sharing! For further information, please visit the conference Web site at <http://www.grc.org/programs.aspx?year=2011&program=toxicity>.

# 2011 Annual Meeting News



GET UP-TO-THE-MINUTE DETAILS AT

[HTTP://WWW.TOXICOLOGY.ORG/AI/MEET/AM2011/INDEX\\_FAST.ASP](http://www.toxicology.org/ai/meet/am2011/index_fast.asp) !

ABSTRACT DEADLINE IS OCTOBER 3, 2010

AWARD NOMINATION DEADLINE IS OCTOBER 9, 2010

EARLY BIRD REGISTRATION DEADLINE IS JANUARY 21, 2011

## SOT ANNUAL MEETING 2011 SCIENTIFIC THEMES

### Global Air Quality and Human Health

Environmental exposures that can adversely affect human health are not confined to national borders. It is becoming increasingly apparent that air pollution is not just a local issue, but has international health implications. In short, everyone is affected by the quality of the air. Understanding the impact of air quality on the initiation and progression of cardiovascular and respiratory diseases and cancer is critical in order to improve human health. The goal of this theme is to integrate information on individual susceptibility, disease mechanisms and levels of exposure and to demonstrate how this information can have a significant impact on the development of global air quality policies and regulations.

### Novel Approaches to Preclinical Safety Assessment: Bridging the Gap Between Discovery and the Clinic Through Translational Toxicology

Toxicology can play a key role in identifying and implementing advances in toxicological mechanisms, safety assessment, and biomarkers when cross-disciplinary efforts are coordinated during the drug development process. Application of advances in toxicology will be showcased within this theme including: 1) High-content screening to investigate toxicity pathways and to mine for potential adverse effects of drug candidates; 2)

Systems toxicology, biomarkers and biomolecular networks; 3) Cellular systems biology applied to pre-clinical safety testing; 4) Zebrafish models as a non-mammalian alternative for toxicity screening; 5) Novel approaches to assessing toxicity that is dependent upon life stage and/or life style including pharmacogenomics; and 6) Stem cell technology for assessing toxicity. The goal of this theme is to highlight advances in toxicology that improve translation from animal models to humans.

## **Environment and Disease**

Growing evidence suggest that the environment is a significant factor in the susceptibility and progression of cardiovascular and neurodegenerative diseases and cancer. The knowledge of the sequence of the human genome coupled with detection and assay methods that allow environmental agents to be evaluated at the low end of the dose-response curve provide incredible possibilities to increase our capability to predict, detect, and treat these and other diseases. The environmental influence on disease theme has been selected to highlight recent advances in these areas as well as contrast how this knowledge is impacting regulation and policy.

## **Toxicity Testing: State of Science and Strategies to Improve Public Health**

In order for Federal regulations to best reflect the current state of the science, toxicity testing paradigms need to adapt to the advances of science. The NAS Vision of Toxicity Testing in the 21st Century emphasizes reliance on toxicity-pathway perturbations as the basis for toxicological risk assessment. This vision requires sufficient understanding of such pathways in order to be able to shift away from apical outcomes in laboratory animals and to confidently interpret human biomonitoring, environmental health surveillance, and targeted epidemiological studies. The main challenge inherent in bringing this vision to fruition is to have testing strategies that provide sufficient context for evaluating potential risk. The goal of the toxicity testing theme is to initiate discussion on how toxicity testing could integrate state of the science methodologies and thereby reduce the uncertainties in the interpretation of toxicity-pathway data to humans.

## **Integration of Toxicological and Epidemiological Evidence to Understand Human Risk**

As novel technologies expand the range of biomarker assessments and the NAS vision for toxicity testing begins to be implemented, the integration of mechanistic laboratory animal testing and *in vitro* systems with human epidemiological data will require new strategies to fully utilize and integrate these data for extending the range of observations and to characterize the exposure-response of human risk. While frameworks exist to qualitatively describe the human relevance of effects, mechanistic multi-scale modeling can provide quantitative, integrative predictive tools for interpreting toxicity testing and for describing toxicity pathway function at various levels of observation to determine dose-response relationships. Included in this type of modeling are dosimetry and computational models of systems biology to characterize what constitutes significant alteration of critical pathways induced by various agents and extrapolate across species or *in vitro* to *in vivo*. The goal of this theme is to initiate discussion on how new technologies can improve assessment of the dose-response curve and thereby improve human risk assessment from environmental exposures.

## **Emerging Global Public Health Issues**

The global economy raises challenges to protecting human health within the United States for our regulatory agencies. These challenges have most recently been illustrated by the world-wide incidence of melamine adulteration of pet food, use of lead paint used in toys, contamination of drugs such as heparin, and unacceptable levels of pesticide residues on foods. Ultimately, public health issues are no longer just local issues affecting a single country or specific geographic region of the world, but have international health implications. The global public health issues theme has been selected to highlight recent advances in these areas, as well as how this knowledge is impacting regulation and policy.

# SOT Regional Chapter News

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## **Regional Chapter/Special Interest Group Graduate Committee Officers**

Ofek Bar-Ilan, Chair

Jessica Placido, Chair-Elect

Mike Berg, Secretary

## **HOW CAN YOU BECOME A REGIONAL CHAPTER AND A NATIONAL SOT MEMBER?**

Being a student member at the National and Regional levels provides excellent opportunities for you to interact with other student members and toxicology experts in SOT. You are permitted access to the SOT On-line Job Bank and student awards and recognition, and you have the opportunity to be a part of a larger community of scientists and eligibility for student leadership positions. Membership in SOT gives you the opportunity to network at the national and regional SOT meetings and facilitates communication that could open the door for new research collaborations. It's also a great way to network with future employers! Don't miss out on this great opportunity!

**How to apply to be a student member:** Apply today! Application information is available on-line at [http://www.toxicology.org/dotnet/membership\\_app.aspx](http://www.toxicology.org/dotnet/membership_app.aspx)

**Already a student member of SOT?** Pay your dues or renew your membership on-line! To renew your national or regional SOT membership, go to [www.toxicology.org/membership.asp?page=dues](http://www.toxicology.org/membership.asp?page=dues).

## **ALLEGHENY-ERIE CHAPTER**

*2010-2011 Student Representative: Arpit Mehta*

Allegheny-Erie Society of Toxicology held their 24th Annual Spring Meeting on "Nanotoxicology" on Friday, April 30th, 2010, in Bridgeside Point, Pittsburgh, PA. The meeting included both student poster presentations and key guest speakers! All the information can be found at the link below:

<http://www.toxicology.org/isot/rc/allegheny/meetings.asp>

Membership information can be found on the link below:

<http://www.toxicology.org/isot/rc/allegheny/membership.asp>

## **GULF COAST CHAPTER**

*2010-2011 Student Representative: Mike Berg*

The Gulf Coast Society of Toxicology had an informative meeting on "Environmental Regulation of Autophagy and Cell Metabolism" in November of 2009 with Dr. Cheryl Lyn Walker as the keynote speaker. Platform and poster presentations by ~30 postdoctoral, graduate and undergraduate students covered an array of impressive research with awards given for each category.

Please check the GCSOT Web site for updates regarding the 2010 annual meeting in Galveston, Texas. There will be both platform and poster presentation competitions (<http://www.toxicology.org/isot/rc/GCSOT/index.asp>). Links are available on the Web site to download both the meeting registration form and membership application as well. If you would like more information regarding the upcoming meeting or about the membership process, please contact your graduate student representative: Mike Berg (MBerg@cvm.tamu.edu)

## **MICHIGAN CHAPTER**

*2010-2011 Student Representative: Kevin Beggs*

The Spring 2010 MISOT meeting entitled "Biologics for Therapy and Vaccination: Discovery, Development and Safety," was held at NSF International in Ann Arbor, Michigan on Friday, May 7. Our four speakers presented diverse talks that all related to the central theme of the meeting.

- Dr. Paul Makidon—University of Michigan
- Dr. Stefano Liparoto—MPI Research
- Dr. Steven Hunt—Ascent Therapeutics
- Dr. James Woods—University of Michigan

Topics included nanoemulsion-based mucosal vaccines, biologic therapeutics and other innovative immunomodulators, pepducins, and treatment of cocaine toxicity with cocaine esterase. Undergraduate, graduate students and postdocs presented their work during the poster session.

For more information on MISOT membership and meeting registration please visit the Michigan Regional Chapter's Web site: <http://www.toxicology.org/isot/rc/michigan/misot.html>

## **MID-ATLANTIC CHAPTER**

*2010-2011 Student Representatives: Josie Bonventre*

The Fall 2009 meeting was a great success with a main theme of "Metabolic Syndrome and Related Conditions: Pathogenesis to Therapy." Speakers and topics included Dr. Jerrold Heindel from the National Institute of Environmental Health Sciences with a presentation on "Chemicals in the Environment: What Doesn't Make Us Sick.....Makes Us Fatter," Dr. Joseph Odin from Mount Sinai School of Medicine speaking about "Metabolic Syndrome: Genes, Environment, Diet and More," and Dr. Catherine Klein from NYU Medical Center with the presentation, "Epigenetics at the Crossroads of Gene Expression: Dietary and Multigenerational Effects." The Fall meeting also highlights a Career Session with a panel of Toxicologists from academia, industry, and government where students are free to ask questions.

The Spring 2010 MASOT meeting took place on Thursday, May 13<sup>th</sup>, at the Woodbridge Hilton in Iselin, NJ. The main theme was "Toxicology in the News," and included presentations on toxicology tests performed in the Medical Examiner's Office, and Homeland Security Adaptive Responses. The ambassador for this year's Spring meeting was Dr. Meryl Karol, an internationally recognized expert in Inhalation Toxicology. The Spring meeting highlighted a poster contest for undergraduate and graduate students in MASOT with monetary prizes, as well as a chance to network with professionals.

More information about MASOT, including membership applications, can be found on the MASOT Web site at [www.masot.org](http://www.masot.org). MASOT is always looking for more undergraduate and graduate student members! The membership fee is \$10 and semi-annual meeting costs are \$5 for students. Become a member of MASOT today!

## **MIDWEST CHAPTER**

*2010-2011 Student Representative: Tammy Elmergreen*

The Midwest Regional Chapter (MRC) Spring Meeting was held on Friday, May 21, at the Marriott Resort in Lincolnshire, IL. This year's topic was "The Central Nervous System as a Target of Toxic Injury." Among the seven scheduled speakers, the meeting included Dr. Mary Jeanne Kallman (Covance Laboratories), Dr. Jeffrey Johnson (University of Wisconsin-Madison), and Dr. Rikki Waterhouse (Abbott Laboratories). Along with the wonderful speaker presentations, students displayed their diverse work at the poster session. The Victor A. Drill Award was presented to Matthew Schmitz of Midwestern University for the best poster, which grants a paid trip to the 2011 national SOT meeting. Second place for the Victor A. Drill Award was presented to Tammy Elmergreen of the University of Washington, Madison. The Young Investigator Award was also presented to Amy Irving of the University of Washington, Madison, at the 2010 Spring meeting. This award consists of \$1500 to be used at the discretion of the student towards costs that are associated with toxicological training, education, and research. Last year's Young Investigator Award winner, Erin Shanle (University of Wisconsin-Madison) presented her research findings in Lincolnshire.

If you have any questions regarding the Victor A. Drill Award, the Young Investigator Award, the Spring 2010 or Fall 2010 meetings, or about becoming involved in the Midwest Regional Chapter, please contact Ofek Bar-Ilan at [barilan@wisc.edu](mailto:barilan@wisc.edu) or Tammy Elmergreen at [telmergreen@wisc.edu](mailto:telmergreen@wisc.edu).

## **NORTH CAROLINA CHAPTER**

*2010-2011 Student Representative: Katie Paul*

The Spring NCSOT Meeting, "Genomics and Toxic Response," on March 3<sup>rd</sup>, 2010, featured Drs. Alison Harrill and Ivan Rusyn, who discussed the use of a panel of inbred mouse strains to model genetic diversity in toxicological studies and the use of high-throughput data in risk assessment. Congratulations to graduate students Samantha Snow, Miyuki Breen, and Shannon O'Shea who won awards for their poster presentations at the annual NCSOT Poster Competition at the Spring Meeting.

The Fall NCSOT Meeting will include an afternoon of seminars, and will also feature the popular student and postdoctoral luncheon followed by a career panel session where students are encouraged to ask questions pertaining to industry, academic, and government jobs in toxicology. The President's Award for Research Competition (PARC) will be awarded to a postdoc who will also give a short seminar at the meeting.

Student membership is inexpensive, looks great on a CV, and provides access to toxicology professionals throughout the state! Membership is open to all graduate students as well as undergraduates studying in the field of toxicology or related fields. If you would like to become a member any time of the year (dues are \$5), please visit the NCSOT Web page at: <http://www.toxicology.org/isot/rc/nc/ncsot.htm>

Please don't hesitate to contact me! ([kbpaul@email.unc.edu](mailto:kbpaul@email.unc.edu))

## **NORTHEAST CHAPTER**

*2010-2011 Student Representative: To Be Determined*

The annual meeting for 2009 was held on October 16th, at Genzyme Center in Cambridge, MA. In honor of the 200th birthday of Charles Darwin and the 150th anniversary of the publication his "On the Origin of Species," the theme of the Northeast Chapter's 2009 Annual Meeting was the Evolution of Toxicology. Dr Ken Miller of Brown University presented the keynote address. The student poster award winners were: 1<sup>st</sup> place, \$750: Jeena Santos, Brown University; 2<sup>nd</sup> place \$500: Ben Moyer, Brown University; and 3<sup>rd</sup> place \$250: Priscilla Encarnacao, University of Connecticut.

The next NESOT annual meeting will be held in October, 2010. Date and place to be determined. Travel awards for attendance at the national meeting were given to Meeghan O'Conner of University of Connecticut, 1<sup>st</sup> place, \$1000.; Nicholas Heger of Brown University, 2<sup>nd</sup> place, \$500; and Daniel Ferreira of University of Connecticut, 3<sup>rd</sup> place, \$250. Awards were presented at an NESOT luncheon during the SOT national conference

Student membership in NESOT is \$10. Applications and other information can be found on the NESOT Web site <http://www.toxicology.org/isot/RC/northeast/index.html> .

## **NORTHERN CALIFORNIA CHAPTER**

*2010-2011 Student Representative: Heather Bolstad*

NorCal SOT hosted a well-attended reception with wonderful food and drinks during the SOT Annual Meeting in Salt Lake City on Tuesday, March 9, at Squatters Pub and Brewery. Young Investigator Awards were presented to UC Davis Ph.D. students Thomas Hill and Laurel Plummer and the Past President-Emeritus plaque was presented to George Clemens.

NorCal SOT hosted a spring meeting on "Drug Development: From Small Molecules to Biologics" on Thursday, May 6th, 2010 at SRI International, Menlo Park, CA. Students were encouraged to bring posters documenting their research and received \$50 for doing so. All attendees had the opportunity to participate in a Lunch with an Expert program. The meeting was generously sponsored by BioReliance, Corp., California Department of Toxic Substances Control, ChanTest Corp., Charles River Laboratories, Comparative Biosciences, Covance, Genentech, ITR Laboratories, Inc., LAB Research, Inc., MPI Research Inc., Novartis, and SRI International. [Click here](#) for a meeting flyer containing the program, sponsors, presentation abstracts, and speaker biographical sketches.

Find more information on the [NorCal SOT Web site](#). Join NorCal SOT when you join the national SOT on the SOT Web site, or fill out a [membership application](#) and send to Jeff Tepper at [tepperTox@aim.com](mailto:tepperTox@aim.com).

## **NORTHLAND CHAPTER**

*2010-2011 Student Representative: Sarah Skolness*

The Northland Chapter had several students attend the national SOT meeting in Salt Lake City. For our annual Spring Meeting held May 6, 2010, in St. Paul, MN, the topic was the very timely "Toxicology and Sustainable Chemistry." Speakers from industry, government, and academia discussed their initiatives to go greener in all areas of toxicology.

If you have any questions about the Northland Chapter please visit the Northland Web site for more information: <http://www.toxicology.org/isot/rc/northland/>

## **SOUTH CENTRAL CHAPTER**

*2010-2011 Student Representative: Jim Kleinedler*

The SCC-SOT chapter meeting was held in Shreveport, Louisiana in October 2009. Guest speakers included Garry Buettner, Ph.D. University of Iowa, "The Basics of Free Radicals," and Mark DeCoster, Ph.D., Louisiana Tech University, "Neurotoxicity of Nanoparticles."

The next SCC-SOT chapter meeting will be held at Mississippi State University, Starkville, Mississippi. The time and date are currently pending. The SCC-SOT chapter encourages high school, undergraduate, and graduate students interested in toxicology to attend. There will be both a poster and oral presentation competition in which

prizes will be awarded. This will be a good opportunity for networking and observing current research done by fellow chapter members.

The SCC-SOT chapter has its own Web site: <http://www.toxicology.org/isot/rc/southCentral/index.asp> that is currently being updated. The SCC-SOT encourages the recruitment of undergraduates to toxicology. Information on membership and benefits are located on the SCC-SOT's Web site.

## **SOUTHEASTERN CHAPTER**

*2010-2011 Student Representative: Marie Bourgeois*

The Southeastern (SESOT) Regional Chapter will hold their fall Meeting October 11-12, 2010, at the Georgia Center for Continuing Education in Athens, Georgia. The chapter has been inactive for several years and this will mark our first regional meeting since returning to active status. The focus of the meeting will be mechanisms. Our plenary speakers will be Dr. Cheryl Walker and Dr. Harvey Clewell. Registration will be \$100 for faculty and \$50 for students. Registration will also be available on-site the day of the meeting at higher costs. Registration includes two continental breakfasts, lunch on Monday, refreshments at breaks, and a reception downtown on Monday. Twenty five rooms have been reserved at the Georgia Center for speakers, officers, and anyone who wishes to stay at that location. The discount rate is \$89. In addition to platform presentations, there will be a poster session on Monday from 3-5 PM.

Please consider submitting an abstract and joining us in Athens this fall. The abstract submission deadline will be announced as the meeting approaches. The Regional SESOT meeting allows students the benefit of entering poster and abstract competitions, networking with fellow peers, and practicing for subsequent presentations at national meetings. For more information and details on how to become a member of SESOT, please visit our Web site at <http://www.toxicology.org/isot/rc/Southeastern/index.html>.

## **SOUTHERN CALIFORNIA CHAPTER**

*2010-2011 Student Representative: Parrisa Solaimani*

The previous SoCal SOT meeting titled "Safety Biomarkers: Recent Progress and Current Initiatives" was held Thursday, October 1, 2009, at Allergan Inc. in Irvine, CA. This meeting was another success for our Chapter and we look forward to a similar outcome for 2010.

The upcoming Chapter meeting is currently being planned for Fall 2010, and as always the students are invited to submit an abstract and participate in a poster/presentation session. Prizes will be awarded to outstanding entries with monetary compensation.

Students can become members by applying and submitting the application found on-line at <http://www.toxicology.org/isot/rc/SouthernCal/index.asp>. Southern California Regional Chapter is the only dues free Regional Chapter since 2000. The Chapter has a broad diversity of membership including academia, biotechnology, the pharmaceutical industry, and more.

# Special Interest Group News

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## AMERICAN ASSOCIATION OF CHINESE IN TOXICOLOGY

*2010-2011 Student Representative: Susan Li Xu*

American Association of Chinese in Toxicology (AACT) is an organization of scientists with Chinese ethnic background who are in toxicology and related fields. Our group is dedicated to foster interactions among these professionals and bridges the toxicological sciences between the Eastern and the Western world.

As a student member, you can receive a free membership in SIG. All eligible SOT student members are welcome to join our organization. Please visit our Web site for more information:

<http://www.toxicology.org/isot/sig/aact/index.asp>.

For detailed information on how to submit your application, please visit:

<http://www.toxicology.org/isot/sig/aact/join.asp>.

Four student awards (three of Charles River Best Abstract Awards, one of Jean Lu Student Scholarship Award) will be given in 2011 SOT annual meeting. The application deadline is January 1<sup>st</sup>, 2011. All AACT-SIG student members are encouraged to submit your application. More information is available on-line: <http://www.toxicology.org/isot/sig/aact/criteria.asp>.

The award winners at the 2010 Annual SOT Meeting were:

### **Jean Lu Student Scholarship Award:**

Haitian Lu (Michigan State University)

### **AACT-Charles River Best Abstract Award:**

1<sup>st</sup> Place Zhiying Ji (University of California, Berkeley)

2<sup>nd</sup> Place Xueqian (Shirley) Wang (NIH/NIEHS)

3<sup>rd</sup> Place Xiaochu Zhang (University of Toronto)

## ASSOCIATION OF SCIENTISTS OF INDIAN ORIGIN

*2010-2011 Student Representative: Senthilkumar Perumal Kuppusamy*

Association of Scientists of Indian Origin in America (ASIOA-SOT) is a branch of national ASIOA that promotes fellowship among scientists of Indian origin living in North America. It acts as a scientific and educational society and establishes open channels of communication among all scientists. It honors and recognizes senior scientists who have made an impact in science as well as provides awards to outstanding postdoctoral fellows and graduate students for their research. The mission of ASIOA-SOT is to enhance collegiality, fellowship, networking, and professional development of all associated with and engaged in the active learning and practice of toxicology. The members meet every year at the SOT meeting and/or otherwise keep in contact with each other through networking and newsletters in order to facilitate and augment professional development individually and collectively.

Students can become members if they are members of SOT. Membership is free for students and postdocs if this is their first Special Interest Group. Dues for additional Specialty Sections or Special Interest Groups are \$15.

Web site: <http://www.toxicology.org/isot/sig/asio/membership.asp>

ASIO provides travel awards to outstanding graduate students and postdoctoral candidates to attend the SOT meeting. ASIO also organizes the Lunch N'Learn program at SOT where students can meet experts in Toxicology and discuss with them about topics of interest like career development, networking etc.

The following students were recipients of awards at the 2010 meeting:

**ASIO-SIG Young Investigator International Travel Award:** Durga Nand Tripathi

**ASIO-SIG Dr. Dharm Singh Postdoctoral Fellow/ Young Investigator Best Abstract Award:**  
Dr. Mayurranjan S. Mitra

**ASIO-SIG Dr. Harihara Mehendale Graduate Student Best Abstract Award:** Indira Devi Jutooru

**ASIO-SIG Dr. Laxman Desai Graduate Student Best Abstract Award:** Arunkumar Asaithambi

## WOMEN IN TOXICOLOGY

*2010-2011 Student Representative: Jennifer Head*

The Women in Toxicology (WIT) SIG is focused on providing both a mentoring resource as well as leadership opportunities for women. WIT is also dedicated to promoting the visibility of women in the sciences and recognizes achievements of those making significant contributions to the field of toxicology. Another major goal of WIT is to encourage young women grades K-12 level to pursue education in the toxicological sciences. Students interested in joining WIT may contact Kimberly von Brook ([kimberly@toxicology.org](mailto:kimberly@toxicology.org)). For more information see the WIT Web site: <http://www.toxicology.org/isot/sig/wit/index.asp>

Award winners at the 2010 Annual Meeting:

**Elsevier Mentoring Award:** Curtis D. Klaassen, Ph.D.

**Vera W. Hudson and Elizabeth K. Weisburger Scholarship Fund Student Award:** Natalie Malek Johnson, Ph.D., Texas A&M University

**Postdoctoral Achievement Award:** Michele A. La Merrill, PhD, Mt. Sinai School of Medicine

**Student Achievement Award:** Gayathri Chadalapaka, Texas A&M University; Christina M. Powers, Duke University

**Student Achievement Award Honorable Mention:** Erin M.G. Allen, University of Iowa

**REGIONAL CHAPTER/SPECIAL INTEREST GROUP GRADUATE COMMITTEE  
OFFICERS AND REPRESENTATIVES**

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Women In Toxicology	Jennifer Head	<a href="mailto:jennifer_head@urmc.rochester.edu">jennifer_head@urmc.rochester.edu</a>

# Specialty Section News

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## Specialty Section Graduate Committee Officers

Haitian Lu, Chair

Thomas Simones, Chair-Elect

Michael Borland, Secretary

## BIOLOGICAL MODELING

*2010-2011 Student Representative: Christopher Carosino*

The Biological Modeling Specialty Section (BMSS) includes professionals representing industry, academia, and regulatory agencies dedicated to advancing the use of biologically based mathematical models in the interpretation and application of toxicological data. Quantitative, mechanistic models help reduce uncertainty in chemical risk assessment through the incorporation of *in vivo*, *in vitro*, and epidemiological data, thereby lessening the gap between actual and predicted risk. This Specialty Section provides members with a venue for networking, developing educational programs to highlight the latest developments in the field, and enhancing the use of biological models in toxicology research and risk assessment.

Students are encouraged to join this Specialty Section as a means of gaining knowledge about this multidisciplinary field and networking with professionals from diverse research and regulatory backgrounds. Students are encouraged to submit their accepted abstracts for consideration for the Perry J. Gehring Student Award for Excellence in Biological Modeling, which carries a \$500 cash prize, a plaque, and a computational modeling software license, to be awarded at the Annual Meeting. This year all of our applicants received honorable mention cash awards and we congratulate our joint winners Sheppard Martin and Marc-André Verner. For more information on applying for student awards and past winners, see the BMSS Web site: <http://www.toxicology.org/ISOT/SS/BMSS/index.asp> or contact the student representative.

## CARCINOGENESIS

*2010-2011 Student Representative: Michael Borland*

The Carcinogenesis Specialty Section (CSS) is a multidisciplinary group of SOT members that include toxicologists from academia, industry, and government. Our research interests also vary from mechanistic carcinogenesis to population level carcinogenesis. Our diversity leads to excellent exposure to vast number of world leaders in carcinogenesis and provides an excellent opportunity for networking. You can join CSS when you renew your SOT student membership.

CSS also provides a number of awards for students and postdoctoral researchers. At the 2010 SOT Annual Meeting, CSS recognized four graduate students and one postdoctoral researcher for their outstanding research. These winners included:

Lauren Mordasky Markell, The Pennsylvania State University – The Dharm V. Singh Carcinogenesis Award. “Pharmacological Inhibition of TGFβ1 Signaling Enhances Malignant Progression of Chemically Induced Skin Cancers through Changes in Inflammatory Response.”

Indira Jutoora, Texas A&M University – First Place Graduate Student Award. “Arsenic Trioxide Downregulation of Specificity Protein (SP) Transcription Factors in Bladder Cancer Cells is Dependent on Reactive Oxygen Species (ROS).”

Bokai Zhu, The Pennsylvania State University – Second Place Graduate Student Award. “Peroxisome Proliferator-activated Receptor  $\beta/\delta$  (PPAR $\beta/\delta$ ) Inhibits Viral Hras1 (v-Hras1)-induced Neoplastic Transformation of Mouse Primary Keratinocytes.”

Satoko Kakiuchi-Kiyota, University of Nebraska – Third Place Graduate Student Award. “Effects of Peroxisome Proliferator-activated receptor gamma (PPAR $\gamma$ ) Agonists on Endothelial Cells: Differences Between Sarcomagenic Troglitazone and Non-sarcomagenic Pioglitazone.”

Melissa Bar Hoover, Hamner Institute – Postdoctoral Award. “AhR Regulates Cell Cycle Progression in Human Breast Cells via a Functional Interaction with CDK4.”

CSS sponsors or endorsed a number of workshops, symposia, roundtables, and information sessions at SOT meetings, and this year was no different. CSS sponsored or endorsed 5 symposia, 2 workshops, 1 roundtable, and 2 information sessions. The CSS reception on Monday, March 8, provided the opportunity for the SS membership to recognize our award winners and outgoing executive committee members, as well as allowing networking among membership.

Please consider joining CSS if you conduct research related to carcinogenesis. There are excellent opportunities for award recognition, participation in program planning, networking with current CSS members, and meeting world-wide leaders in carcinogenesis. For more information, visit the CSS Web site:

<http://209.183.221.234/ISOT/SS/carc/home.html>.

## **CARDIOVASCULAR TOXICOLOGY**

*2010-2011 Student Representative: Katrina Porter*

The diversity of cardiovascular toxicities grows daily, but our understanding of the potential impact of such toxicities on greater human health has only begun to properly characterize such outcomes. The Cardiovascular Toxicology Specialty Section (CVT SS) of SOT has been established to lead the response to these challenges in our immediate and not so distant futures. The CVT SS is committed to excellence in all aspects of research and will serve to unite cardiovascular toxicologists from academia, government, industry and the private sector. This unification will serve to merge conventional techniques and methods in an interdisciplinary fashion that will fortify the education of our students and fellows that will become the next generation of cardiovascular toxicologists.

You can join the CVT SS on-line on the SOT Web site. Please e-mail for more information or visit our Web site at:

<http://www.hsc.wvu.edu/ccrs/cvtss/Default.aspx>. You can find us on Facebook at:

<http://www.facebook.com/home.php?#!/group.php?gid=322416306697>.

Since this was our charter year, no awards were given at the meeting in Salt Lake City. However, next year we are planning to offer a student award, as well as a paper-of-the-year award. The graduate student committee for our Specialty Section is currently forming. Anyone interesting in serving on the committee this year or next may contact me via e-mail, for more information.

Our charter meeting was held in Salt Lake City at the SOT Annual Meeting over a luncheon, and had a large turnout. Organization and planning are in the works to make the CVT SS active and involved in all aspects of SOT.

## DERMAL TOXICOLOGY

*2010-2011 Student Representative: Gayatri Sankaran*

The objectives of the Dermal Toxicology Specialty Section are to provide a forum for the interaction of individuals involved in risk assessment, pharmacokinetics, dermal penetration/ absorption, hypersensitivity and dermal toxicity, regulatory issues, basic skin biology, and with other professionals working in the field of dermal research. Please visit the DTSS section of the SOT Web site for more information on becoming a student member.

<http://www.toxicology.org/ISOT/SS/dtss/membership.html>

DTSS award winners at the 2010 SOT Annual Meeting:

**DTSS Best Paper Award:** Michael Borland, Penn State University

**Sinclair Student Abstract Award:** Xiaochu Zhang, University of Toronto

**Stratacor-Port Royal Postdoctoral Abstract Award:** Dae Joon Kim, University of Texas at Austin

**Battelle Student Research Awards:** Lauren Mordasky Markell, Penn State University, and Gayatri Sankaran, University of California, Riverside

Student members of DTSS have the opportunity to apply for the DTSS Best Paper Award (\$500), the Sinclair Student Abstract Award (\$500), and one of two Battelle Student Research Awards (\$2500). Check the DTSS Web site at <http://www.toxicology.org/ISOT/SS/dtss/awards.asp> for more information about award descriptions and deadlines. Membership with DTSS also provides excellent networking opportunities!

## INHALATION AND RESPIRATORY

*2010-2011 Student Representative: Christina Hickey*

The Inhalation and Respiratory Specialty Section (IRSS) is a forum for members of the Society of Toxicology dealing with the impact of airborne substances and particles on the body. Issues of interest to the IRSS include indoor and outdoor air pollution, occupational exposure to airborne contaminants, therapeutic drug delivery by inhalation, deposition and pharmacokinetics of agents delivered by the inhalation route, particle dosimetry, and interactions between inhaled materials and infectious allergic stimuli. The Section meets regularly at the SOT Annual Meeting to promote a better understanding of inhalation and respiratory tract toxicology, to recognize students and colleagues for notable contributions to inhalation research, and to address issues of importance to this field. The Section sponsors travel awards for outstanding students, the Mary O. Amdur Student Award, two student and postdoc awards, and recognition awards for new investigators and those with outstanding career achievements. The student awards are given to the best abstract submitted each year, and consist of an engraved plaque and a cash prize. The deadline for abstract submissions this year's awards will be posted on the IRSS Web page (<http://www.toxicology.org/ISOT/SS/inhalation>). If you are currently a member of SOT you may join the IRSS by using the [SOT On-Line Membership Renewal Form](#). If you have any questions about student participation, membership, our student mailing list, awards, or anything else regarding the IRSS, visit the SOT Web site and the IRSS page, or contact your student representative. We look forward to meeting you in the future, and seeing you in Washington, DC!

## METALS

*2010-2011 Student Representative: Sandra Wise*

The Metals Specialty Section is a subgroup of the Society of Toxicology, the membership of which has expertise in all aspects of metal toxicology. This includes mechanisms of action, analytical procedures, regulatory issues, assessment of target organ toxicity, etc. The Section holds regular meetings at the SOT Annual Meeting to

discuss topics of interest to the membership. Students can become members through the SOT Web site. For more information visit the Metals Specialty Section Web site: <http://www.toxicology.org/ISOT/SS/Metals/Index.asp>

The Metals Specialty Section presented the following awards at the 2010 SOT Annual Meeting in Salt Lake City:

**Student Awards:** 1<sup>st</sup> Alicia Bolt, 2<sup>nd</sup> Natalia VanDuyn, 3<sup>rd</sup> Clarisse Muenyi

**Post Doc Awards:** 1<sup>st</sup> Maryse Lemarie, 2<sup>nd</sup> Fujun Liu, 3<sup>rd</sup> Yang Sun

**Career Achievement Award:** Max Costa

## MOLECULAR BIOLOGY

*2010-2011 Student Representative: Jill Franzosa*

The Molecular Biology Specialty Section sponsored the following symposia at the 2010 Annual Meeting in Salt Lake City:

- Faster Science for Better Decisions: Characterizing Environmental Contaminant Risk from High Throughput Data
- It's Not Your Father's Aryl-Hydrocarbon Receptor: New Biological Roles for a Misunderstood Receptor
- Omics Profiling of Cell and Tissue Interactions of Nanomaterials: Insight Into Mechanisms of Action
- Blood-Based Genomic Profiles as Biomarkers of Exposure and Effect
- Biological Pathway Analysis: An Introduction to the Pathway Knowledge Bases for Toxicological Research
- Nuclear Receptors: Role in Chemical Mode of Action and Targets for Toxicity
- Predictive Power of Omics Technologies (Cells to Omics): Promises, Pitfalls, and Potential Applications

In addition to these sponsored symposia, the **MBSS Reception** was held on Monday, March 8<sup>th</sup>, where we introduced our new officers and announced the winners of the six MBSS Graduate Student and Postdoc awards. For further information on the Molecular Biology Specialty Section, please contact the MBSS student representative, Jill Franzosa, via e-mail at [jill.franzosa@science.oregonstate.edu](mailto:jill.franzosa@science.oregonstate.edu) or visit the MBSS Web site at [www.toxicology.org/isot/ss/molecular/mbss.html](http://www.toxicology.org/isot/ss/molecular/mbss.html).

## NANOTOXICOLOGY

*2010-2011 Student Representative: Eric Liberda*

The objective of the Nanotoxicology Specialty Section (NTSS) is to serve as the focal point for the interaction of members of the Society of Toxicology interested in the science and toxicology of nanoscale materials, the responsible development of safe nanomaterials, and the application of nanotechnology to toxicological and environmental health problems. NTSS is attempting to achieve this through the conduct of scientific programs and educational activities that address current developments and key issues in nanoscale science and toxicology.

This year NTSS held several webinars in addition to a nanodabate which took place during the 2010 SOT Annual Meeting Nanotoxicology reception in Salt Lake City, UT. At the reception, we also announced our first award winners for their outstanding work describing toxicological effects of various nanomaterials!

The award winners were:

**Best Abstract (graduate student):** Ofek Bar-Ilan

**Best Abstract (Postdoctoral fellow):** Rong Wan, PhD

**Best Paper:** Jae Hyuck Sung et al. (Toxicol Sci. 2009 Apr; 108(2):452-61).

If you are not a member of NTSS and believe that our objective is in line with your scientific interests, we encourage you to visit our Web site (<http://toxicology.org/ISOT/SS/nano/index.asp>) and consider joining this new and exciting group! Becoming a member is affordable and easy.

## NEUROTOXICOLOGY

*2010-2011 Student Representative: Jason Magby*

The Neurotoxicology Specialty Section (NTSS) consists of members of SOT who are interested in the adverse effects of chemical, biological or physical agents on the structure and function of the nervous system. NTSS members have research, regulatory and/or industrial interests in the field of neurotoxicology as it relates to environmental chemicals and pharmaceuticals. Individuals can join the NTSS when applying for or renewing their current SOT membership.

This year, the NTSS granted three pre-doctoral poster contest awards:

**First place:** Marc-Andre Vernerand, Universite du Quebec a Montreal

**Second place:** Kristen Ryan, University of Colorado

**Third place:** Judy Choi, Johns Hopkins School of Public Health.

The postdoctoral poster competition awarded two postdoctoral awards to first place Shirley Wang from NIEHS and Tamara L. Tal from Oregon State University. This year's SOT award recipients included two of our NTSS officers: Dr. Gary W. Miller received an Achievement Award for the significant contributions made during the early stage of his career and Dr. Marion F. Ehrich received a Merit Award for her long-standing contributions to toxicology. Our reception had a large turnout this year with over 230 members in attendance. We sponsored or co-sponsored a number of events with diverse topics including zebrafish as a model system, high throughput electrophysiology, metal neurotoxicity, and the fetal basis of adult disease. For more information visit <http://www.toxexpo.com/ISOT/SS/neurotox/aboutNTSS.asp>

## OCCUPATIONAL AND PUBLIC HEALTH

*2010-2011 Student Representative: Lydia Louis*

The OPHSS held its annual luncheon at the SOT Annual Meeting in Salt Lake City. At the meeting new officers were announced and are as follows: Mike Ottlinger, VP-elect; Jenny Robert, Secretary/ Treasurer; Bill Luttrell, Councilor; Jorge Muniz Ortiz, Postdoctoral Representative; and Lydia Louis, Student Representative.

OPHSS also presented the following awards at the 2010 SOT Annual Meeting:

**Best Abstract Award:** Patricia Gillespie, New York University School of Medicine, "*Central Nervous System Effects after Exposures to Nanosized Particles.*"

**Best Manuscript Award:** Raja Settivari, Indiana University School of Medicine, "*The Divalent Metal Transporter Homologues SMF-1/2 Mediate Dopamine Neuron Sensitivity in Caenorhabditis elegans Models of Manganism and Parkinson Disease,*" *The Journal of Biological Chemistry* Vol. 284, No. 51, pp. 35758–35768 (2009)

**2009 Paper of the Year:** Sari-Minodier, Irène, Truchon, Ginette, Charest-Tardif, Ginette, Bérubé, Anick and Tardif, Robert (2009) "*The Effect of Workload on Biological Monitoring of Occupational Exposure to Toluene and N-Hexane: Contribution of Physiologically Based Toxicokinetic Modeling,*" *Journal of Occupational and Environmental Hygiene*, 6: 7, 415-432.

## REGULATORY AND SAFETY EVALUATION

*2010-2011 Student Representative: Tom Simones*

The Regulatory and Safety Evaluation Specialty Section (RSESS) is tasked with communicating with leaders in industry and government regarding the safety and regulatory standards of various toxic compounds. The mission of RSESS is to keep SOT members informed about regulatory decisions and governmental policies surrounding the safety evaluation of food additives, nutraceuticals, therapeutic drug products and environmental, industrial and household chemicals and other products of concern. The RSESS has between 325-350 members who are active in industry, government, and academics. Students are encouraged to join the RSESS as it is a great way to network with prominent leaders and learn more about regulatory policy.

At the 2010 meeting in Salt Lake City, seven prestigious awards were presented to both graduate students and postdoctoral scholars. The recipients received a plaque and a travel award for \$1500, presented during the RSESS annual reception. Graduate students and postdoctoral scholars are strongly encouraged to apply for next year's RSESS Travel Award.

The RSESS hosts a Great Debate each year at the Annual Meeting. This year's Great Debate was "Are the Blind Leading the Blind or Are Pathologists Biased? A Debate on the Pros and Cons of Blinded Histopathology Evaluation for the Qualification of New Biomarkers of Toxicity." Two veteran pathologists, Robert Maronpot, D.V.M., M.P.H., DACVP and Karamjeet Pandher B.V.Sc., Ph.D., DACVP, presented their case for blinded histopathology to identify new biomarkers of toxicity, followed by a lively discussion at the RSESS annual reception.

For more information visit: <http://www.toxicology.org/isot/ss/regulatorysafety/Index.html>

## REPRODUCTIVE AND DEVELOPMENTAL TOXICOLOGY

*2010-2011 Student Representative: Nick Heger*

The Reproductive and Developmental Specialty Section (RDTSS) is a subgroup of the Society of Toxicology whose members have expertise and/or responsibility for assessment of toxicology of the reproductive system or development of offspring. The RDTSS emphasizes a multidisciplinary approach to examining the structural, functional, endocrinologic, pathologic, pharmacologic, toxicologic and epidemiologic effects of agents on reproduction and development for the purpose of evaluating hazards and risks for the human population. Students with interests in reproductive and developmental toxicology, endocrinology, children's health, and other related areas are encouraged to join this active and dynamic Specialty Section by learning more at the Web site: <http://www.toxicology.org/ISOT/SS/repdevtox/index.asp>

## TOXICOLOGIC AND EXPLORATORY PATHOLOGY

*2010-2011 Student Representative: Lu Wang*

The Toxicologic and Exploratory Pathology Specialty Section formed with the goals of establishing scientific and educational programs dealing with current advances and policies regarding experimental pathology and to guide discussions regarding the application of these considerations to regulatory policy and risk assessment practices. The TEPSS presented the following awards at the 2010 SOT annual meeting:

**Roger O. McClellan Award winner:** Yogesh Saini, Michigan State University

**Charles Capen Student Travel Award winner:** Fang Liu, Nagoya University Graduate School of Medicine (Japan)

**TEPSS Student Travel Award winner:** Erica Sparkenbaugh, Michigan State University

## SS-GC OFFICERS AND REPRESENTATIVES

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Ethical Legal & Social Issues	Nicole Olgun	<a href="http://www.toxicology.org/ISOT/SS/ELSI/index.asp">www.toxicology.org/ISOT/SS/ELSI/index.asp</a>
Food Safety	To be determined...	
Immunotoxicology	Xiaochu Zhang	<a href="http://www.toxicology.org/ISOT/SS/imtox/Index.asp">www.toxicology.org/ISOT/SS/imtox/Index.asp</a>
<i>In Vitro</i> /Alternatives	Andrea DeSantis	<a href="http://www.toxicology.org/ISOT/SS/ivss/index.htm">www.toxicology.org/ISOT/SS/ivss/index.htm</a>
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This newsletter was produced by  
the Student Advisory Council.

