

NAME OF SPECIALTY SECTION Biological Modeling

## **ANNUAL REPORT: 2011-2012**

May 1, 2011 to April 30, 2012

### **I. Officers/Committees:**

<u>Officers</u>	<u>2011-2012</u>	<u>2012-2013</u>
President:	James Bruckner	Hisham El-Masri
Vice President:	Hisham El-Masri	Cecilia Tan
Vice President-Elect:	Cecilia Tan	Harvey Clewell
Secretary/Treasurer:	Jerry Campbell	Eva McLanahan
Past President	Robert DeWoskin	James Bruckner
Councilors:	Clay Frederick	Clay Frederick
	John Wambaugh	Brad Reisfield
PDA Representative:	Susan Crowell	Annie Lumen
GSLC Representative:	Miyuki Breen	Miyuki Breen

### **I. Committees:**

The BMSS 2011 **Best Paper Award committee** was formed by the officers from volunteers among the specialty section members. Committee members were Hugh A. Barton (Chair), Jim Bruckner, Ravi Dugyala, Sudin Bhattachara, Eva McLanahan, Ted Simon, and Marc Verner. Papers published either electronically or in hard copy from January to December 2011 were considered. The review process included an initial screening of hundreds of abstracts obtained by electronic searching and nominations from BMSS members followed by reading and ranking of the top six papers. The selection process was difficult due to the wide range of topics and modeling approaches considered.

### **II. Activities:**

**2012 SOT Annual Meeting Reception** was held in San Francisco on (Monday, March 12th). Approximately 60 people were in attendance. Dr. Bruckner called the meeting to order at 6:30 PM on Monday, March 12th. He briefed the audience on the status of the specialty section and our annual budget. Dr. Hugh Barton briefed the audience on the selection process for the best paper award. Dr. Kathleen Holm was then announced as the recipient of 2012 Perry L. Gehring award for best presentation. The meeting concluded with a scientific presentation by Dr. Nicole Klienstreuer of the EPA on the application of agent-based modeling to predict disruption of embryonic vasculature by chemicals.

Awards:

**Perry J. Gehring Student Award for Excellence in Biological Modeling:** Kathleen Holm. Identifying the sources of uncertainty in the process of reconstructing exposures to carbaryl using exposure-to-dose modeling

**BMSS 2012 Best Paper Award:** Hinderliter PM, Price PS, Bartels MJ, Timchalk C, Poet TS. Development of a source-to-outcome model for dietary exposures to insecticide residues: an example using chlorpyrifos. *Regul Toxicol Pharmacol.* 2011 Oct;61(1):82-92

Endowment fund:

Beginning of Year - net assets = 33,321

End of Year - net assets = 34,057 (for the 11 months ending May 31, 2012)

2012 SOT Annual Meeting Courses/Sessions:

The section voted on sponsoring and endorsing three and nine sessions, respectively. Of the sessions that were voted on, the following ones were selected for presentations at the 2012 meeting:

*Sponsored Sessions:*

**Workshop Session: Discovering Novel Hypotheses for Mechanisms of Toxicity from High-Content Data Sets** *Chairperson(s): Nigel Greene, Pfizer, Inc., Groton, CT, and Ahmed nayetallah, Pfizer, Inc., Groton, CT.*

*Endorsed Sessions:*

**Continuing Education: The Use of Physiologically-Based Pharmacokinetic Modeling to Inform Early Life Sensitivity to Chemical Toxicity.** *Chairperson(s): Harvey J. Clewell, The Hamner Institutes for Health Sciences, Research Triangle Park, NC, and Miyoung Yoon, The Hamner Institutes for Health Sciences, Research Triangle Park, NC.*

**Informational Session: Evolution and Implementation of Combined Chemical Exposure Methods: International Perspectives.** *Chairperson(s): Moiz Mumtaz, ATSDR, Atlanta, GA, and Bette Meek, University of Ottawa, Ottawa, ON, Canada.*