

ANNUAL REPORT: 2019-2020

May 1, 2019 to April 30, 2020

I. Officers/Committees:

<u>Officers</u>	<u>2019-2020</u>	<u>2020-2021</u>
President:	Brad Reisfeld	Andy Nong
President-Elect:	Qiang Zhang	Patricia Ruiz
Vice President:	Andy Nong	Qiang Zhang
Secretary:	Tammie Covington	Miao Li
Treasurer:	Tammie Covington	Miao Li
Past President	Jeffrey William Fisher	Brad Reisfeld
Councilors:	Alicia Paini	Dustin Kapraun
	Dustin Kapraun	Lisa Sweeney
 PDA Representative:	 Yi-Hsien Cheng	 Yi-Hsien Cheng
 Grad Student Representative:	 Michel Bteich	 Michel Bteich

II. 2019 Membership total: 144

III. Key Outcomes in 2019-2020:

Activities:

A. 2020 SOT Annual Meeting Virtual Activities (e.g. courses, scientific sessions, or virtual receptions):

SOT Webinar: New Data and Tools for Understanding Chemical Distribution In Vitro

Date and time: Tuesday, June 16, 2020 12:00 pm EDT

Chair(s): Nynke Kramer, Universiteit Utrecht; and John Wambaugh, US EPA.

Primary Endorser: Biological Modeling Specialty Section

Virtual Reception and Guest Speaker:

May 27th, 2020 12PM-1PM EST

Part 1. BMSS Virtual Reception (12:00-12:20)

A townhall meeting of BMSS business which replaces the BMSS reception at SOT meeting due to cancellation.

Part 2. SIR Modeling of COVID-19 transmission (12:20-13:00)

Benjamin Lopman, PhD

Professor, Department of Epidemiology

Rollins School of Public Health

Emory University

B. 2020 Awards Information:

Perry J. Gehring Award for Biological Modeling – Dr. Zhenzhen Shi, Postdoctoral Fellow at Emory University, mentored by Dr. Qiang Zhang. “Development of a Virtual Population Model of Thyroid Hormone Regulation for Safety Assessment of Endocrine Disrupting Chemicals”.

Perry J. Gehring Award for Biological Modeling – Honesty Tohon, Graduate Student at University of Montreal, mentored by Dr. Sami Haddad. “Estimation of toluene exposure in air from BMA (S-benzylmercapturic acid) urinary measures using a reverse dosimetry approach based on physiologically based pharmacokinetic modeling”.

2020 Andersen-Clewell Trainee Award with RASS/Endowment – Qiran Chen, Graduate Student at Indiana University, mentored by Dr. Kan Shao. “A Novel Dose-Response Framework with Quantitatively Integrated MOA Information”.

BMSS Best Trainee Abstract Award – Kazi Tasneem, Graduate Student at Vanderbilt University. “Toxicokinetic Model Predicts Cellular Exposure in Organ-on-Chip Microdevices”.

2019 Biological Modeling Best Paper - Wei-Chun Chou and Zhoumeng Lin. Bayesian evaluation of a physiologically based pharmacokinetic (PBPK) model for perfluoro octane sulfonate (PFOS) to characterize the interspecies uncertainty between mice, rats, monkeys, and humans: Development and performance verification. Environ Int. 2019.

Serena Manganelli, Alessandra Roncaglioni, Kamel Mansouri, Richard S Judson, Emilio Benfenati, Alberto Manganaro, Patricia Ruiz. Development, validation, and integration of in silico models to identify androgen active chemicals. Chemosphere. 2019

C. Other Educational Activities Conducted (e.g. webinars, in person meetings, etc.):

Webinars:

Topic: “Comparison of Various Approaches to AOP Quantification”

Date: Wednesday, October 9, 2019

Time: 3:00 PM EDT

By Dr. Frederic Y. Bois, Senior Sci Advisor & Head of Mechanistic Modelling, Certara Simcyp division

“Introduction and use of the open source PBPK modeling R package PLETHEM”

Date: Monday, May 20, 2019

Time: 1:00 PM EDT

by Salil Pendse, ScitoVation

D. Communication Activities: Follow BMSS on Twitter (<https://twitter.com/sotbmss>) LinkedIn (<https://www.linkedin.com/in/sotbmss>)

Newsletter publication frequency: BMSS Spring 2020 Newsletter

Key Announcements/blogs:

Website highlights: The redesign of the Biological Modeling specialty section BMSS website is under development.

E. Treasury Report

Summary of 2019 fiscal year balances

- Revenues of \$5,027 versus \$4,253 for 2018
- Expenses of \$7,232 versus \$5,367 for 2018
- Net loss of \$677 versus \$1,114 for 2018
- **Fiscal year-end balance of \$7,811 versus \$10,016 for 2018**

Sources of revenue

- Membership dues – \$2,350
- Registration fees – \$960
- Interest – \$332
- Contribution – \$100

Expenses

- Annual reception – \$5,385
- Monetary awards – \$350
- Mentoring luncheon – \$1,203
- Award plaques – \$159
- Officer meeting – \$73

V. Feedback and Ideas:

- A. How might SOT better support your group's activities (perhaps something the Society should be doing that we currently do not do, or do not do effectively, that would be of importance/benefit to the members of your component group?):

- Nothing new to add, BMSS appreciate the continued support of the student awards, webinar setups and preparation of all our activities.

What is one thing that the Society is currently doing that impacts your component group that should be changed (e.g., stopped, modified, etc.)?

- Nothing to comment.

What changes does your component group anticipate making in the way in which it operates in the coming year?

- The possibility that the next annual meeting will be modified as a virtual conference instead of in-person attendance. Such eventuality means planning for additional effort of scheduling session proposals as was done for this year annual meeting. It also means changing past reception format into a virtual presentation.