

Mixtures Specialty Section

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: | Danielle J. Carlin | Thomas Webster |
| Vice President-Elect: | Mansi Krishan | Paul S. Price |
| Vice President: | Thomas Webster | Mansi Krishan |
| Secretary: | Esra Mutlu | Esra Mutlu |
| Treasurer: | Esra Mutlu | Esra Mutlu |
| Past President | Chris Gennings | Danielle J. Carlin |
| Councilors: | Chris Gennings Jennifer J. Schlezinger Marie Bourgeois | Danielle J. Carlin Marie Bourgeois Courtney Roper |

PDA Representative: Troy D. Hubbard Elizabeth Medlock Kakaley

Graduate Student Representative: Krisa Camargo Krisa Camargo

Committees: If applicable.

II. 2019 Membership total: 132

III. Key Outcomes in 2019-2020:

Activities:

A. 2020 SOT Annual Meeting Virtual Activities (e.g. courses, scientific sessions, or virtual receptions): As news of the pandemic increased, we first canceled the in-person reception. The meeting itself was canceled shortly thereafter. We did not hold any virtual activities in connection with the annual meeting itself, but have planned a webinar with a talk by the winner of our best abstract award.

B. 2020 Awards Information:

Postdoctoral Award Winner – Genoa Warner, Abstract 1549; Poster Board Number P667; Phthalate and Phthalate Metabolite Mixtures Alter Gene Expression in Mouse Neonatal Ovaries. G. R. Warner, J. S. Yue, and J. A. Flaws. University of Illinois at Urbana-Champaign, Champaign, IL.

Graduate Student Award Winner – Alyssa Merrill, Abstract 2803; Poster Board Number P420; Endocrine Disrupting Chemical Exposure during Pregnancy and Metabolic Reprogramming. A. K. Merrill, T. Anderson, E. Marvin, K. Conrad, B. Lawrence, M. Susiarjo, D. Cory-Slechta, and M. Sobolewski. University of Rochester, Rochester, NY.

Mixtures SS Best Abstract Award – Top 5 Abstract Winners

1st place – Abstract 3154: Development of an AOP Network for the Developmental Effects of Exposure to the PFAS. **LE Grey**, USEPA

2nd place – Abstract 2812: Identification of Co-occurrence Patterns of Persistent Organic Pollutants with Data Mining Methods. **DN Williams**, Oak Ridge Institute for Science and Education and USEPA

3rd place – Abstract 2806: Modeling Induction of Proximal and Distal Endpoints following PPAR γ Activation by Ligand Mixtures. **J Schlezinger**, BU School of Public Health

4th place – Abstract 2616: Using Gene Expression Analysis to Support Risk Assessment of Metal Mixtures in Freshwater Systems. **DL Cucchiara**. University of Florida, Colorado School of Mines, Applied Limnology Professional.

5th place – Abstract 1427: Linking Co-regulated Gene Modules with Polycyclic Aromatic Hydrocarbon-Related Cancer Risk (RPF) in the 3D Human Bronchial Epithelium. **Y Chang**. Oregon State University and U. North Carolina.

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

Webinar January 8, 2020 - Rapid Hazard Identification of Environmental Chemicals and Mixtures

Webinar September 11, 2019 - A Novel Empirical Strategy using Human Biomonitoring Data to Estimate Regulatory Guideline Values

Webinar May 9, 2019 - EuroMix: An assessment of mixture toxicity using in vitro analyses of liver steatosis to develop an adverse outcome pathway based strategy

D. Communication Activities:

Newsletter publication frequency: September 2019 Newsletter

Key Announcements/blogs:

Website highlights:

E. Mentoring activities: The mentoring activity we often have at the annual meeting was canceled.

Other and planned activities: In place of our annual officers breakfast meeting at the SOT annual meeting, we held a conference call. We have two webinars planned in connection with the risk assessment specialty section for the fall and winter concerning mixtures and AOPs, a very topical subject: Dr. Grey (winner of our 2020 best abstract award) will give one of them. This will partly make up for the cancelation of the annual meeting as well as provide connection with another specialty section. We reviewed a number of proposed sessions and courses for the 2021 meeting and provided feedback to organizers and then to SOT. The next newsletter is in preparation.

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?):

Note: If funding is listed, please provide detail on the membership need that the funding would support.

- SOT has provided good support this year: thank you to Rosalie Duvic! We are thinking more about outreach to other members of SOT (and elsewhere) to increase membership in the MixSS. For example, mixtures is an increasingly important topic scientifically (papers and grants) as well as in regulation (e.g., PFAS water quality standards). We would appreciate any suggestions or assistance on this. We could also use ideas for identifying and contacts (names, contact information) for sources of funding for sponsorship of award prizes and travel costs.