

# Mixtures Specialty Section

*A mixture of business, social, and news*

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### *From the President*

Dear SOT Mixtures Specialty Section (MixSS) members,

We are looking forward to seeing you at the 2025 SOT Annual Meeting in Orlando.

Our reception will be on Wednesday evening and be sure to check out the MixSS endorsed symposia and workshop throughout the week (details on page 4) as well as Mixtures poster session on Wednesday from 1:45-4:15pm.

Leading up to this year's annual meeting, we have had MixSS activities throughout the year including two webinars co-hosted with the RASS, and last month we held our annual Jane Ellen Simmons Travel Award Competition. This is an excellent way to support trainees while honoring Jane Ellen Simmons. Also, a special thanks to Esra Multu, the MixSS Past President, for her efforts in creating this award starting in 2024. I encourage all of you to consider donating to this award so we can continue to carry on this tradition. To contribute, send an email to [SOTmixSS@gmail.com](mailto:SOTmixSS@gmail.com) or [Donate Here](#). Now more than ever, providing trainees with opportunities to present at and attend scientific conferences is paramount.

*Cont'd on pg 2*

## *From the President, continued*

In addition to the Jane Ellen Simmons Travel Award, we again had the opportunity to review abstracts related to Mixtures toxicology for the upcoming meeting. Be on the lookout for ribbons at the posters of our Top 5 Abstract winners. Additionally, with the generous support from RTI International, we were able to review applications for the MixSS Best Student/Postdoc Abstract Awards (pg 5-6). This is another way of supporting the exceptional mixtures toxicology research that is occurring with trainees. The winners of this award will be recognized at the reception on Wednesday evening, so make sure to stop by and congratulate them!

Lastly, I would like to thank all of the MixSS officers who work throughout the year to support Mixtures research, trainees, and events. Without their continued efforts we would not have the supportive MixSS community. It has been a pleasure working with each of them and I'm excited to see what happens next for the MixSS.

Myself and the MixSS officers are eager to see everyone at the SOT Annual Meeting! You can stay up to date with MixSS events and upcoming awards through our [website](#) and [LinkedIn page](#). Please reach out to us if you have any suggestions or ideas!

Sincerely,

Courtney Roper, Ph.D.

President, MixSS (2024-2025)



# Recent Webinars

The Risk Assessment Specialty Section (RASS) hosts monthly webinars and twice a year, RASS graciously teams up with MixSS to co-host seminars at the intersection of risk assessment and mixtures toxicology.

## Wednesday, January 8, 2025: An Update on Vaping in Two Parts

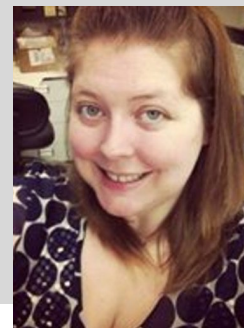


### **“Part 1: The Mixture Effect – Complexity of Electronic Nicotine Delivery System (ENDS) Aerosols Toxicity Assessment”**

Alexandra Noël, PhD | Associate Professor, Director of Inhalation Research Facility| Louisiana State University

### ***“Part 2: Considerations in Assessing Hazards, Exposures, and Risks of ENDS Compared to Other Tobacco Products”***

Mary Irwin, PhD, | Center for Tobacco Products, US Food and Drug Administration



## Monday, January 27, 2025: Jane Ellen Simmons Travel Award Finalist Competition



### Finalists:

Jiawen Chen, University of Southern California

Chloe Chou, University of North Carolina Chapel Hill

Hannah Dye, University of Washington

Erin McNell, University of North Carolina Chapel Hill and National Institute of Environmental Health Sciences

Olga Skende, University of Rhode Island

Jennifer Thies, University of North Carolina Chapel Hill

Access these presentations and other past MixSS webinars [HERE](#).

# Looking Ahead: SOT 2025

## *MixSS Endorsed SOT 2025 Sessions*

**Tuesday, March 18, 1:00 PM to 2:30 PM, Room W202A, Convention Center**

**Workshop Session:** Exposure Assessment Strategies for Susceptible and Vulnerable Populations

W

Chairs: Eva Vitucci, Texas A&M University and Samantha Snow, ICF International Inc.

Primary Endorser: Exposure Specialty Section

Other Endorser(s): Inhalation and Respiratory Specialty Section; Mixtures Specialty Section

**Monday, March 17, 1:45 PM to 4:30 PM, Room W203A, Convention Center**

**Symposium Session:** Living in a Chemical World: Identification and Characterization of Emerging Contaminants of Concern and Need for New Regulatory Approaches

S

Chairs: Christopher Kassotis, Wayne State University and Katherine Pelch, Natural Resources Defense Council

Primary Endorser: Mixtures Specialty Section

Other Endorser(s): Mechanisms Specialty Section

**Tuesday, March 18, 1:00 PM to 2:30 PM, Room W203A, Convention Center**

**Symposium Session:** Reproductive and Endocrine-Disrupting Effects of Legacy and Emerging PFAS and their Mixtures

S

Chairs: Barbara Wetmore, US EPA and Shuo Xiao, Rutgers, The State University of New Jersey

Primary Endorser: Reproductive and Developmental Toxicology Specialty Section

Other Endorser(s): Mixtures Specialty Section

### MixSS Reception

**Wednesday March 19<sup>th</sup>, 2025**

**Reception: 6:00-7:30 pm**

**Celebration Room 1, Hyatt Regency**

**Monday March 17<sup>th</sup>, 2025**

**Mentoring Event: 7:45-9:00 pm**

**Regency Ballroom T, Hyatt Regency**

Have a topic you'd like to see endorsed by the Mix SS in the future?

[Submit your ideas HERE](#)

**S \* T** MARCH 16-20  
ORLANDO

# 2025 SOT Award Winners

***Jane Ellen Simmons Travel Award Winner:***  
**Jennifer Thies, University of North Carolina  
Chapel Hill**



Essential oil vape aerosols induce  
inflammation and alter estrogen receptor  
expression in human respiratory epithelial cells



**Student Award Winner:**  
**Marc Rodriguez, University of North Carolina  
Chapel Hill**

Sex Specific Effects of Wood Smoke Condensate  
Exposure on Cytokine Profiles and Transcriptional  
Pathways in Primary Human Bronchial Epithelial  
Cells

**Postdoc Award Winner: Lucie Ford,  
Texas A&M University**

An Analytical-In Vitro Workflow to  
Characterize Uptake and Toxicity of Defined  
PFAS Mixtures





# Top Overall Mixtures Abstracts for SOT 2025

**Best Abstract:** Samantha Lapehn (Seattle Children's Research Institute)

**Abstract #3157; Development of an endocrine disrupting chemical associated multi-omic RNA-microRNA network in the placenta:**

**2<sup>nd</sup> Place:** Erin Murray (University of Rochester)

**Abstract #4603; Novel psychosocial resource deprivation stress alters the neurotoxicity of low dose PFOA exposure during gestation in maternal postpartum brain and behavior**

**3<sup>rd</sup> Place:** Kyle Burns (Oregon State University)

**Abstract #4735; Investigating the response of human bronchial epithelial cells to polycyclic aromatic hydrocarbons from wildfire smoke in the presence and absence of THP-1 macrophages**

**3<sup>rd</sup> Place:** Samuel Caito (Husson University School of Pharmacy)

**Abstract #3333; Synergistic Neurotoxic Effects of Methylmercury and Per- and Polyfluoroalkyl Substances (PFAS) in *Caenorhabditis elegans***

**5<sup>th</sup> Place:** Tara Sabo-Atwood (University of South Carolina)

**Abstract #2028; Two Sides to Every Story: The Toxicity of Dyed Microplastic Fibers to the Pulmonary System**

# 2024-2025 Officers



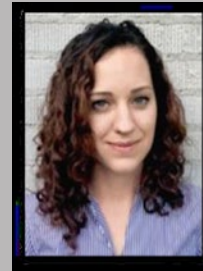
Past President  
Esra Mutlu



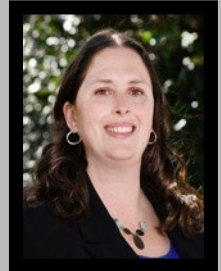
President  
Courtney Roper



Vice President  
Jennifer Schlezinger



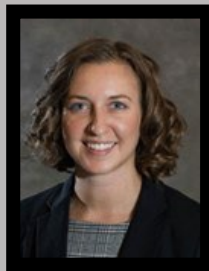
Vice President-Elect  
Allison Phillips



Secretary/Treasurer  
Shannah Witche



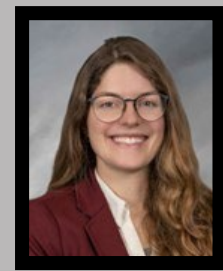
Senior Councilor  
Christopher D.  
Kassotis



Junior Councilor  
Rachel Dee



Postdoctoral Rep  
Thomas Jackson



Graduate Student Rep  
Samantha Heldman

## Results of Mixtures Election Announcing 2025 Officers:

- Vice President-Elect  
Justin Conley
- Secretary/Treasurer  
Christopher Kassotis
- Junior Councilor  
Kristin Eccles
- Postdoctoral Representative  
Paul Deford
- Graduate Student Representative  
Olga Skende

Thank you for  
voting!



Please consider donating to the Mixtures SS so that we can continue to offer exciting events and awards!

Email: [SOTmixSS@gmail.com](mailto:SOTmixSS@gmail.com)

[Donate Here](#)

Are you on LinkedIn? Now we are too! Connect with the Mixtures Specialty Section on LinkedIn to stay up to date on Specialty Section announcements, SOT Annual Meeting deadlines, and upcoming webinars.

[Find the MixSS LinkedIn Page HERE](#)



See you in Orlando!



**SOT** 64<sup>TH</sup> ANNUAL MEETING & TOXEXPO  
ORLANDO, FLORIDA • MARCH 16-20, 2025