

[Nanoscience and Advanced Materials Specialty Section]

ANNUAL REPORT: 2021-2022
May 1, 2021 to April 30, 2022

I. Officers/Committees:

<u>Officers</u>	<u>2020-2021</u>	<u>2021-2022</u>
President:	Jared M. Brown	Salik Hussain
President-Elect:	Christie Sayes	Phoebe Stapleton
Vice President:	Salik Hussain	Christie Sayes
Secretary:	Amy K. Madl	Vamsi K. Kodali
Treasurer:	Amy K. Madl	Vamsi K. Kodali
Past President	Jenny R. Roberts	Jared M. Brown
Councilors:	Phoebe Stapleton	Zhoumeng Lin
	Zhoumeng Lin	Marusia Popovech

PDA Representative:	Alba Garcia-Rodriguez	Kelley Fraser
Graduate Student Representative:	Mariana T. Farcas	Rebekah Kendall
Vice Student Representative:	Rebekah Kandell	Methew Gibbs
Committees:	If applicable.	
Awards Committee: Christie Says (Chair)		
	Jared Brown	
	Amy Madl	
	Zhoumeng Lin	
	Alba Rodriguez	
	Mariana Farcas	

II. 2021 Membership total: 153

III. Key Outcomes in 2021-2022:

Activities:

A. 2021 SOT Annual Meeting Activities (e.g. courses, scientific sessions, or receptions):

Reception: We hosted an in person reception at the 2022 Annual Meeting which included awards ceremony, announcement of new officers, announcements for upcoming events/next years meeting and networking activities for the students.

Symposium: *Safe and Sustainable Plastics: Navigating Health Impacts with Innovations*
Tuesday March 29th, 8-10:45 am

Chair: Flemming Cassee, Rijksinstituut voor Volksgezondheid en Milieu (RIVM), Netherlands
 Co-Chair: Aimen Farraj, US EPA

Platform Session: SPC Highlights Emerging Scientists: Nanotoxicology

Tuesday March 29th 1-2 pm

Chairs: Salik Hussain (WVU) and Daniele Wikoff

Poster Sessions: Tuesday, March 29th, 2:30-4:15 PM

Nanotoxicology: In Vitro

Nanotoxicology: In Vivo

Nanotoxicology: Methodologies and Assessments

B. 2022 Awards Information:

Best Publication Award – Nairrita Majumder, Murugesan Velayutham, Dimitrios Bitounis, Vamsi K. Kodali, Md Habibul Hasan Mazumder, Jessica Amedro, Valery V. Khramtsov, Aaron Erdely, Timothy Nurkiewicz, Philip Demokritou, Eric E. Kelley, Salik Hussain. Oxidized carbon black nanoparticles induce endothelial damage through C-X-C chemokine receptor 3-mediated pathway. *Redox Biology* 47 (2021) 102161.

Best Publication Runner-Up – Saeed Alqahtani, Li Xia, Amber Jannasch, Christina Ferreira, Jackeline Franco, Jonathan H. Shannahan. Disruption of pulmonary resolution mediators contribute to exacerbated silver nanoparticle-induced acute inflammation in a metabolic syndrome mouse model. *Toxicology and Applied Pharmacology* 431 (2021) 115730

Outstanding Graduate Student Award – Saeed Alqahtani (Purdue University)

Outstanding Graduate Student Award (Runner-Up)– Chelsea Cary (Rutgers University)

Outstanding Graduate Student Award (Runner-Up)– Erin Huber (Saint John's University)

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

Trainee Webinars: We hosted a series of trainee webinars that allowed several graduate student/postdoctoral trainees to present their research to the NAMSS community. The presenters were:

Novel methods for evaluating the pulmonary hazards of workplace dust

Dr William Kyle Mandler

National Institute for Occupational Safety and Health (NIOSH)

Characterization of nano-sized silica in agricultural exposures and its role in the pathogenesis of chronic kidney disease of an unknown etiology

Keegan L Rogers

University of Colorado Anschutz Medical Campus, Aurora, CO

Effects of engineered nanoparticles on gut-associated bacterial biofilms

Jacob V Tanzman

Binghamton University, Binghamton, NY

D. Communication Activities:

Newsletter publication frequency: Fall 2021 and Winter 2022

Key Announcements/blogs: N/A

Website highlights: N/A

E. Mentoring activities: N/A

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.

Below are some of the discussion our leadership had regarding this point:

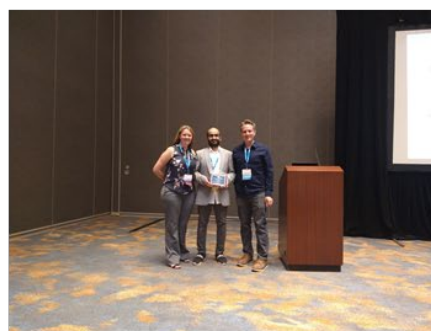
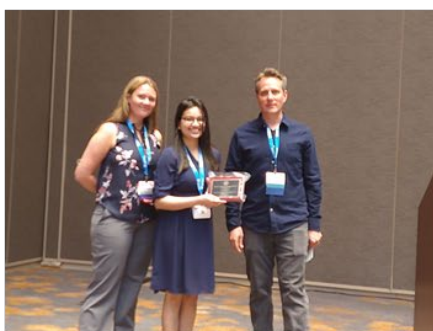
Annual Meeting Reception Costs and Attendance– Although cost of membership for speciality sections was increased recently, reception costs are continually increasing, with some cities more expensive than others. We have also lost some membership in our SS over the past few years as it is a relatively new section and the field is changing with time. There are few points related to this:

1. A five minute introduction to speciality section presentation, from another speciality section with overlapping interest, during annual meeting receptions may lead to increased speciality sections interaction and memberships.
2. We have sought sponsorship from companies and partners in the past to help defray these costs. Can we increase this or is this tactic in conflict with headquarters receiving donations from the same groups? I believe this is also relevant to starting an endowment fund also. Are there any other ways to defray the costs?
3. Membership recruitment guidance from other sections that have done this successfully or headquarters would be helpful. We are attempting to expand our webinar series and to include a guest speaker at our reception to help increase attendance. A related point to consider is whether to have an evening or a luncheon reception. I think we are better attended in the evenings, which cost more, but our membership overlaps greatly with other sections, particularly cardiovascular, inhalation, immunotoxicology and risk assessment. Can reception be staggered differently in the evenings to accommodate this? Can SOT do an analysis of overlap of section membership and schedule the reception slots to maximize attendance and avoid scheduling SS with high degrees of overlap on the same evenings?

Annual Meeting Reception Highlights



Awards



Student Events

