



Inhalation and Respiratory Specialty Section

of the Society of Toxicology



Message from the President

November 4, 2020

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Dear IRSS Members,

As you all know, 2020 has been a year of unprecedented challenges for the world. COVID-19 turned our world upside down practically overnight. Any big conferences, such as our annual meeting, were canceled. Research activities were shut down and everything was moved to virtual. Through all of these changes, our frontline and essential workers dealt with sickness and death, and involved in laboratory work around the clock; thanks to you all.

COVID-19 was not the only dilemma as tensions boiled over with the national racial intolerance movement, and the climate was ravaged with wild-fires and hurricanes. Nevertheless, we endured and persisted on. Thanks to Elise and Colette for including this information on the updated poster (page 4).

Although not the same, teaching, mentoring, and research continued on through virtual means. We learned new skills in zoom, google meets, teams, webex, skype and the like. And to some degree, the pace of our lives slowed down and we found appreciation for the things we once took for granted.

This year has brought to light some of the challenges in the field of inhalation and respiratory toxicology, but it is with a grateful heart I'd like to thank everyone for their membership and for contributing to our diverse and inclusive IRSS. Likewise, we appreciate the innovative ideas that have come to us like the webinars hosted by Judith Zelikoff and Holger Behrsing on inhalational/respiratory effects of COVID-19 (thanks to presenters, page 3). Not to mention the marvelous and much needed cheering up that the virtual retreat put together by Judy (congratulations to all winners) was spectacular. A vast array of dynamic sessions were programmed virtually by our members (page 2), which I greatly enjoyed.

Thank you to our members, our new officers, and everyone who participated in the IRSS activities. We embrace equity, gender, and diversity in our specialty section. We recognize the efforts our members make for the enrichment of our Specialty Section. We will have webinars and other educational activities coming soon!

Stay tuned and be hopeful,

Irfan

Irfan Rahman, PhD
President, Inhalation and Respiratory Specialty Section



Retreat: May 21, 2:30 PM – 4:00 PM
Award Ceremony (Judith Zelikoff, PhD, VP)
Congratulations to the 2020 IRSS Award Winners!

SOT 2020 Program Webinars hosted by IRSS Members: Thank you to all.

<https://www.toxicology.org/events/am/AM2020/program.asp>

SYMPOSIA/WEBINARS

Electronic Cigarettes and Cardiovascular Toxicity: New Friend or Old Foe?

Chairs: Ivan Mark Olfert, West Virginia University School of Medicine; and Daniel J. Conklin, University of Louisville.

Resolution of Inflammation in Chemical Toxicity/Tissue Injury: What's Emerging?

Chairs: Kimberly Gowdy, East Carolina University; and Srikanth Nadadur, NIEHS.

Protecting Public Health and the Environment during Wildfire Recovery

Chairs: Shelley DuTeaux, California Department of Pesticide Regulation; and Shoba Iyer, California Environmental Protection Agency.

CONTINUING EDUCATION COURSE: *In Vitro* Approaches to Assess the Toxicity of Inhaled Substances

Chairs: Amy J. Clippinger, PETA International Science Consortium Ltd., United Kingdom; and Emily Reinke, Army Public Health Center.

Sex, Lungs, and Air Pollution

Chairs: Meghan E. Rebuli, University of North Carolina at Chapel Hill; and Robert M. Tighe, Duke University.

Lung Function: It's Not Just Breathing

Chairs: Andrew Gow and Angela Groves

HOT TOPIC seminars was a huge success!

- **E-cigarette and Vaping Product Use-Associated Lung Injury (EVALI)**



Webinar Series 2020-2021 Part #1

“COVID-19: Impact of Inhalation Based Exposures on Respiratory System” Wednesday, August 5, 2020, at 1:00 – 2:00 PM EDT



Gagandeep Kaur, PhD
Postdoctoral Associate,
University of Rochester
Medical Center



Robert Foronjy, MD
Chief, Pulmonary and Critical Care
Medicine SUNY Downstate Medical
Center

Moderators:

- **Irfan Rahman, PhD**, Professor, University of Rochester, Rochester, NY
- **Judith Zelikoff, PhD**, Professor, New York University School of Medicine
- **Holger Behrsing, PhD**, Principal Scientist & Head: Respiratory Toxicology Program, IIVS, Inc.
- **Chris Reilly, PhD**, University of Utah, Dept. of Pharmacology and Toxicology

Webinar Series 2020-2021 Part #2

“A respiratory look into COVID-19 pediatric health and adolescent health risks of behavior” Wednesday, November 18, 2020, at 2:00 – 3:00 PM EST



Ilona Jaspers, PhD
Professor, Depts. of Pediatrics, Microbiology &
Immunology, and Environmental Sciences and
Engineering
University of North Carolina at Chapel Hill



Matthew McGraw, MD
Assistant Professor - Department of
Pediatrics, Pulmonology (SMD)
University of Rochester Medical Center

Moderators:

- **Irfan Rahman, PhD**, Professor, University of Rochester, Rochester, NY
- **Judith Zelikoff, PhD**, Professor, New York University School of Medicine
- **Holger Behrsing, PhD**, Principal Scientist & Head: Respiratory Toxicology Program, IIVS, Inc.

Thanks to Elise and Colette for updating this poster

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INHALATION AND RESPIRATORY SPECIALTY SECTION

Description

The Inhalation and Respiratory Specialty Section provides a focus for members of the Society of Toxicology dealing with the impact of airborne chemicals and particles on the body. The Section meets regularly at the SOT Annual Meeting to promote a better understanding of inhalation and respiratory tract toxicology, to recognize students and colleagues for notable contributions to research, and to address issues of importance to this field. IRSS sponsors webinars and other educational opportunities.

Issues of Interest

- Indoor and outdoor air pollution
- Occupational exposure to airborne contaminants
- Therapeutic drug delivery by inhalation
- Deposition and pharmacokinetics of inhaled materials
- Interactions between inhaled materials and allergic stimuli
- Airway injury from systemic toxicants
- Systemic injury from airway exposure
- Biomarkers of exposure and disease

Membership Benefits

- Network with inhalation and respiratory toxicologists from industry, government, and academia.
- Present your work in sponsored and selective specialty sessions.
- Mentoring junior members.

Reception and Awards Meeting

Thursday, May 21, 2020

2:30 PM – 4:00 PM EDT

Virtual Meeting via Webex

Please join us to honor our award winners and discuss member involvement.

Executive Committee 2020-2021



Sponsored Events at SOT Virtual Meeting

- "Electronic Cigarettes and Cardiovascular Toxicity: New Friend or Old Foe?" (4/28/2020)
- "Resolution of Inflammation in Chemical Toxicity/Tissue Injury: What's Emerging?" (5/12/2020)
- "Sex, Lungs, and Air Pollution" (6/11/2020)

Continuing Education:

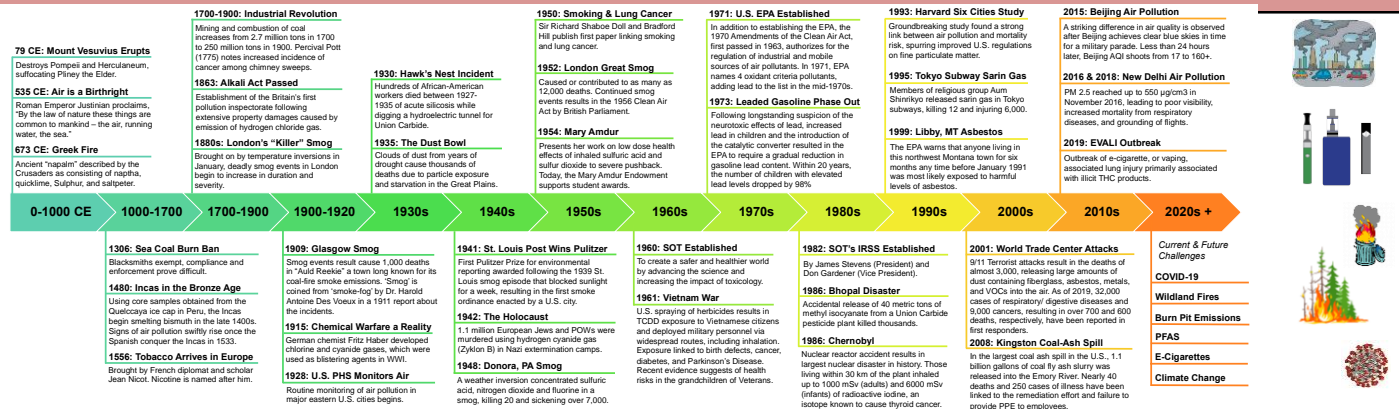
- "In vitro approaches to assess the toxicity of inhaled substances" (5/15/2020)
- "Lung Function: It's Not Just Breathing" (6/26/2020)

Upcoming hot topic seminar topics will focus on the outbreak of e-cigarette, or vaping-associated, lung injury (EVALI), including epidemiology, clinical perspectives, forensic evidence, and potential mechanisms.

IRSS 2020 Award Winners

Career Achievement Award: Urmila Kodavanti, US EPA
Young Investigator Award: Phoebe Stapleton, Rutgers/SUNY
Donald E. Gardner Education Award: Cody Smith, Rutgers
Mary Amdur Student Award: Elise Hickman, UNC Chapel Hill
Graduate Student Award: Christina Awada, NYU
Postdoctoral Awards: Tosifa Memon, University of Utah
Paper of the Year Award: Meghan Rebuli, UNC Chapel Hill

Inhalation Toxicology Through the Ages



Member Highlights

Communication Activities –

Other Specialty Section 2019-2020 Activities

Irfan Rahman, PhD (than VP-elect and VP) served as a member for Specialty Section Collaboration and Communication Group (SS CCG) of the SOT from 2018-2020 where he worked with other Specialty Section groups on increasing the membership, visibility of webinars and seminars, nominating key speakers and suggesting proposals, ethical aspects of members, diversity and inclusion and communicated the exchange of ideas to IRSS.

Marusia Popovech, PhD (IRSS councilor) is now a member of SS CCG on Ethical, Legal, Forensics, and Societal Issues for 2019-2021.

Congratulations to **Amie Lund, PhD** (our IRSS councilor) who is recognized as

- Lone Star Society of Toxicology (LSSOT) Regional Chapter- President (2020-2021)
- SOT Regional Chapter Communication and Collaboration Committee (RC4) - co-Chair (2020-2021)
- LSSOT - FUTURE Liaison (2020-2021)

Dear members,

We would like to acknowledge and thank all of our Executive Committee and IRSS members for their contributions

Awards Committee:

Judith Zelikoff, PhD (Chair)
Judith.Zelikoff@nyulangone.org
All EC members

**Education, Outreach, Endowment
and Webinar Committee:**


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**Thank you for your involvement and commitment.
Please be a part of our endeavors, and contact us for
feedback and involvement!**

NEW BUSINESS AND ANNOUNCEMENTS


 Please apply for **IRSS awards**

 Please suggest topics of **webinars**

 ***IRSS Elections are coming...***

Interested candidates must contact the current officers



 **Annual meeting deadline abstract submission
December 1, 2020.**

Join us in Virtual San Diego, CA **March 27-31, 2022!**

 **Donate to the Endowment Fund!**

 **Support IRSS!**

