

NAME OF SPECIALTY SECTION Inhalation and Respiratory

ANNUAL REPORT: 2016-2017
May 1, 2016 to April 30, 2017

I. Officers/Committees:

<u>Officers</u>	<u>2015-2016</u>	<u>2016-2017</u>
President:	Jacob D McDonald	Flemming R. Cassee
Vice President:	Flemming R Cassee	Jon A Hotchkiss
Vice President-Elect:	Jon A Hotchkiss	Debra Laskin
Secretary/Treasurer:	Laura S Van Winkle	Laura S Van Winkle
Past President	Urmila P Kodavanti	Jacob D. McDonald
Councilors:	Matthew D Reed	Daniel J Conklin
	Mehdi Saeed Hazari	Patti C Zeidler-Erdely
	Daniel J Conklin	Andrea De Vizcava-Ruiz
	Patti C Zeidler-Erdely	Irfan Rahman
PDA Representative:	Jonathan Henry Shannahan	Jaime Mirowsky
GSLC Representative:	Michelle Hernandez	Sarah Carratt

II. Activities:

2017 SOT Annual Meeting Reception was held in Baltimore, MD on March 13, 2017.

Approximately 100 people were in attendance.

Dr. Cassee called the meeting to order and the presentation is attached (see Attachment I).

Awards:

Graduate Student Award- Sarah Carratt, (UC Davis)

Mary Amdur Student Award – Katherine Duke (NC State) and Sheryse Taylor (Rutgers)

Postdoctoral Award – Samantha Snow (EPA) and Meghan Rebuli (UNC)

Donald E Gardner Award – Mathew D. McGraw (Children's Hospital Colorado)

Young Investigator Award – Kym Gowdy (East Carolina University)

Career award- Mike Foster (Duke University)

Paper of the Year: Desinia B. Miller, Andrew J. Ghio, Edward D. Karoly, Lauren N. Bell, Samantha J. Snow, Michael C. Madden, Joleen Soukup, Wayne E. Cascio, M. Ian Gilmour, Urmila P. Kodavanti. Ozone Exposure Increases Circulating Stress Hormones and Lipid Metabolites in Humans. Am. J. Respir. Crit. Care Med., 193: 1382, 2016.

2017 SOT Annual Meeting Courses/Sessions:

Monday:

- Circadian Rhythms in Air Pollution-Induced Pulmonary and Cardiovascular Disorders: A Race Against the Clocks. Petra Haberzett and Martin Young

Wednesday:

- Circulatory Mechanisms Underlying the Systemic Effects of Inhaled Nanoparticles and Complex Combustion Mixtures: Common Pathways for Diverse Toxicants. Matthew Campen and Andrew Ottens

Thursday:

- Microparticles and Exosomes in Cardiopulmonary System-stem Cell and Microenvironment Regulation by Toxicants. Irfan Rahman and Daniel Conklin

Endowment Fund Details:

Donald E Gardner Fund

Assets at beginning of 9 mos	\$52,117
Expenditure: 1 award	\$2,000
Assets at March 31, 2017	\$55,812

Mary Amdur Fund

Assets at beginning of 9 mos	\$78,979
Expenditure: 2 awards	\$1,000
Assets at March 31, 2017	\$89,521

Newsletters: December 2016

Teleseminars: Tuesday, February 14, 2017. Exposomes and Exposomics in Inhalation Toxicology.
Chair: Irfan Rahman.

Co-Chairs/Moderators: Dean Jones, Gunter Oberdorster.
Speaker: Gary W. Miller

White Papers: None

Contributions to SOT website: None

Other Specialty Section 2016-2017 Activities:

Officers Meeting March 13, 2017 and quarterly officer teleconferences

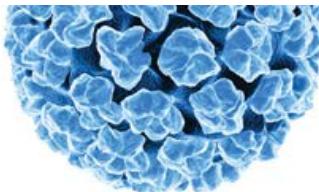
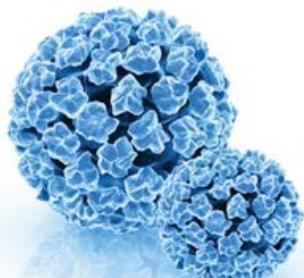
Inhalation and Respiratory Specialty Section

of the Society of Toxicology



8th International Symposium on NanoTechnology, Occupational and Environmental Health

Monday 29 May - Thursday 1 June 2017
Konventum, Elsinore, Denmark



BOHS
The Chartered Society for
Worker Health Protection

IPXII
Inhaled Particles XII

25 - 27 September 2017
Glasgow Marriott Hotel



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Business meeting

All slides will be available from
www.toxicology.org/groups/ss/IRSS

March 13, 2017



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Executive committee

2016-2017



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Flemming R. Cassee



Vice President
Jon A. Hotchkiss



Vice President-elect
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Patti C. Erdely



Councilor
Irfan Rahman



Past President
Jacob D. McDonald



Postdoctoral Representative
Jaime Elizabeth Mirowsky



Student Representative
Sarah Ann Carratt



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Paper of the Year award

Desinia B. Miller, Andrew J. Ghio, Edward D. Karoly, Lauren N. Bell, Samantha J. Snow, Michael C. Madden, Joleen Soukup, Wayne E. Cascio, M. Ian Gilmour, Urmila P. Kodavanti

Ozone exposure increases circulating stress hormones and lipid metabolites in humans.

Am J Respir Crit Care Med. 193:1382, 2016.



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Mary Amdur Student Award

- Sheryse Taylor mentored by Andrew Gow and Debra Laskin Rutgers
- Katherine Duke mentored by James Bonner NC State





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IRSS Student Award

Sarah Carratt, UC Davis – mentored by Laura Van Winkle.





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IRSS Postdoctoral Awards

Samantha Snow,
US EPA



Meghan Rebuli,
University of North Carolina





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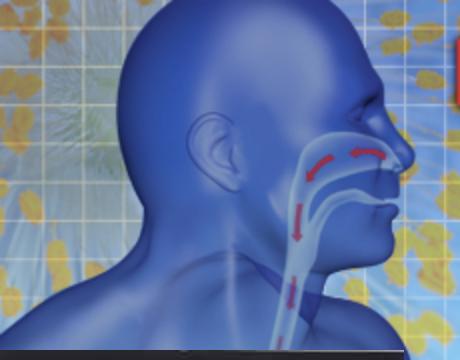
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Young Investigator Award

- Kym Gowdy, East Carolina University





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Donald E. Gardner Inhalation Toxicology Education Award

- Matthew D. McGraw,
Children's Hospital Colorado





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Career Achievement Award

- Mike Foster, Duke University



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2017 Endorsements

- A total of 12 proposals were submitted for review and endorsement by the IRSS
 - 2 CE courses (1 advanced/1 basic)
 - 3 Workshops
 - 7 Symposia
- All 12 proposals were reviewed, ranked and endorsed by the IRSS and forwarded to the Continuing Education and Scientific Program Committees for review and selection



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2017 Endorsements

- Selected Proposals
 - Circadian Rhythms in Air Pollution-Induced Pulmonary and Cardiovascular Disorders: A Race against the Clocks
 - Petra Haberzettl and Martin Young; Monday 2:00-4:45
 - Circulatory Mechanisms Underlying the Systemic Effects of Inhaled Nanoparticles and Complex combustion Mixtures: Common Pathways for Diverse Toxicants
 - Matthew Campen and Andrew Ottens; Wednesday 9:30-12:15
 - Microparticles and Exosomes in Cardiopulmonary System-
stem Cell and Microenvironment Regulation by Toxicants
 - Irfan Rahman and Daniel Conklin; Thursday 8:30 – 11:15

Inhalation and Respiratory

Society of Toxicology

★ 57TH ★
ANNUAL MEETING
AND
TOXEXPO™
SAN ANTONIO
March 11-15, 2018
★ Henry B. Gonzalez ★
Convention Center

**2018 Annual Meeting
CE Course and
Scientific Session
Proposal Deadline:
May 15, 2017**

Session Types

Continuing Education—Emphasis on quality presentations of generally accepted, established knowledge in toxicology
Note: CE Courses will be held on Sunday.

Education-Career Development Sessions—Sessions that provide the tools and resources to toxicologists that will enhance their professional and scientific development

Historical Highlights—Review of a historical body of science that has impacted toxicology

Informational Sessions—Scientific planning or membership development

Regional Interest—Central topics of relevance that describe public health and/or ecological problems of a particular region

Roundtables—Controversial subjects

Symposia—Cutting-edge science, new areas, concepts, or data

Workshops—State-of-the-art knowledge in toxicology



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Secretary / Treasurer's Report

Finances:

- Starting Balance: US\$ 11,885
- Annual Expenses: US\$ 11,561
- Ending Balance: US\$ 1,323

Total section members:

- Members 308 down from 322 last year



IRSS Webinar

Exposomes and Exposomics in Inhalation Toxicology

February 14 (Tuesday), 2017 at 2 pm EST

Gary W. Miller, PhD

Professor, Rollins School of Public Health

Emory University, Atlanta, GA

Email: gwmille@emory.edu

Chairs:

Irfan Rahman, PhD, Professor, University of Rochester, Rochester, NY

(Irfan_Rahman@urmc.rochester.edu)

Co-Chairs/Moderators:

Dean Jones, PhD, Professor, Emory University, Atlanta, GA (dpjones@emory.edu)

Gunter Oberdorster, PhD, Professor, University of Rochester, Rochester, NY

(Gunter_Oberdorster@URMC.Rochester.edu)

Future Webinars: Discuss at SOT, Baltimore



SOT – IRSS E-Journal Club

- **Lead Facilitator(s):** Irfan Rahman

Schedule – ~30-45 mins or one hour
(quarterly)-April; July; October; January

Aims

- To review and discuss currently published research articles relevant to IRSS-SOT.
- Provide insights on timely published papers in the area of inhalation toxicology relevant to basic/translational/clinical research.

Overall, the general purpose of this E-journal club is to facilitate the review of a specific research study/article and to discuss implications/relevance of the study to inhalation toxicology.



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PODCAST

- Interviews with iconic leading scientists/researchers and IRSS award winners to promote their thoughts and current research trends in inhalation and respiratory toxicology
- How: 10-15 min interviews with 4-5 Q&A recorded digitally and put on the IRSS website
- Contact secretary or Irfan for suggestions.



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Contemporary Concepts in Toxicology (CCT) Meetings

Alison
Elder

CCT meetings: Your opportunity to increase the scientific impact of toxicology

How does CCT help you do that?

Identify and refine topics that address innovative science/technology and emerging toxicological issues

Facilitate design and SOT sponsorship of state-of-the-art scientific meetings

Develop meetings that have national and international representation and impact

2016-17 CCT committee

Clarissa Russell (Staff Liaison)
Eric Harstad (Chair)
Craig Rowlands (Co-Chair)
Ruth Roberts
Igor Pogribny
Alison Harrill
Michael Gallo
Yvonne Will
Alison Elder
Charlene McQueen
Christopher Reilly
Michael Carvan



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How to create a CCT meeting/webinar?

Proposals can be submitted by:

- Regional Chapters
- Special Interest Groups
- Specialty Sections
- Individuals
- Other not-for-profit organizations

Successful format options:

- Stand alone meetings
- Preceding SOT annual meeting
- Webinar

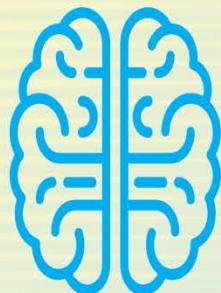
Financial considerations:

- SOT to provide underwriting support for all CCT meetings. Expectation that CCT Meetings will *at least* break even.
- After the initial seed funds (\$25,000) are repaid, PROFIT is split 50/50 with Component Groups (RC, SIG and SS)

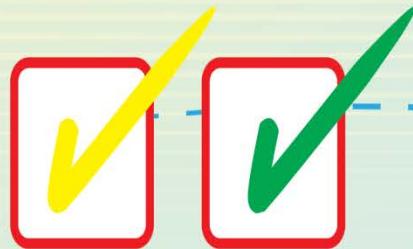
Importantly, you are not alone!

- *SOT staff provides support to your committed scientific team*

CCT Submission Process



Hot Scientific Topic



Approved



Logistics Managed by SOT



Outstanding Science Conveyed



Share the Wealth



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Opportunity for you CCT to be next!

The first step is to bring your idea forward

- Contact any CCT committee member
- Visit www.toxicology.org/CCT



Recent CCT meetings:

- Metabolic Syndrome and Associated Diseases: From the Bench to the Clinic - *March 11, 2017, Baltimore, MD*
- Toxicogenetics: The Interface of Epigenetics and Risk Assessment - *November 2–4, 2016, Tysons, Virginia*
- The Use of Cardiomyocytes for the Assessment of Proarrhythmic Risk - *October 25–26, 2016, Arlington, VA*
- Ocular Toxicology, Pharmacology and Drug Delivery: An Eye on the Future - *June 27 & 28, 2016, South San Francisco, CA*
- MiRNA Biomarkers for Toxicology - *March 12, 2016, New Orleans, LA*
- FutureTox III: Transforming 21st Century Science into Risk Assessment and Regulatory Decision-Making - *November 19–20, 2015, Arlington, VA*
- Risk Assessment of Humanized Monoclonal Antibodies and Antibody—Drug Conjugates; and Risk Assessment of Oligonucleotide Constructs - *April 16, 2015, Webinar*
- Regulatory Toxicology Testing for Small Molecules: Strategies and Outcome Analysis; and Risk Assessment of “Traditional” Biologics - *February 25, 2015, Webinar*
- FutureTox II: *In Vitro* Data and *In Silico* Models for Predictive Toxicology - *January 16–17, 2014, Chapel Hill, NC*
and many more on the CCT site since 1999...



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Potential Questions to Consider

- What are the emerging issues and what are biggest controversies of their area of science?
- Do any of these emerging issues and or controversies overlap with other areas of sciences / Specialty Section areas?
- Where is science in these new areas being conducted?
- Who are the “thought leaders” in these areas?
- Has the Specialty Section had an Annual Meeting session that was well received and needs additional discussion?
- Could any of these topics be discussed as a webinar?
- Could any of these topics be expanded into 1 to 2 day meetings?
- Are members of Specialty Sections aware of how much administrative support that SOT provides to groups interested in providing educational opportunities for meetings outside of the SOT Annual Meeting?
- What additional tools and mechanisms would be useful to help the Specialty Section membership understand that the Society is interested in helping them advance the career opportunities by providing educational opportunities to learn at meetings outside the Annual Meeting?



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SOT membership issues – Terry Gordon

- **John Morris:** “In our view, the current structure ensures that only those members who are fully employed and practicing in the field of toxicology are put into the Associate Membership category. This is a significant problem. Moreover, while it implies second-class status, in our view, it is more appropriately viewed as providing greater opportunity for individuals to take advantage of the benefits of membership in the society and also as a stepping stone towards the goal of attaining full membership.”

retain our current structure



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Dan Costa's idea for position papers

- Jon Hotchkiss and Laura Van Winkle will lead development of an IRSS position paper on

Alternative Methods in Inhalation Toxicology

- *Update on Alternative Approaches to Acute Systemic Toxicity Testing*; Wednesday March 15, 12-1 pm; Johnson A and B rooms, 1st floor – Hilton Baltimore
- *Webinar recordings – Alternative Approaches for Acute Inhalation Toxicity Testing*;
 - Links to recordings can be found at: <http://www.piscltd.org.uk/acute-inhalation-toxicity/>

- Looking for contributing authors
- Looking for ideas for additional topics
- Contact Jon Hotchkiss
 - JAHotchkiss@dow.com

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Postdoctoral Representative
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Student Representative
Sarah Ann Carratt



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Nominating committee : new IRSS SOT officers

- VP elect : Matt Campen
- Graduate student representative: Tamara Young
- Postdoctoral Representative: Donald Anderson
- New Councilors: Ilona Jaspers and Judy Zelikoff
- Secretary: Melanie Doyle-Eisele



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Executive committee May 1, 2017



President
Jon A.
Hotchkiss



Vice
President
Debra L.
Laskin



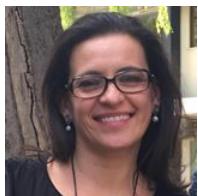
Vice
President-
elect
Matt Campen



Secretary/
Treasurer
Melanie Doyle-
Eisele



Past President
Flemming R.
Cassee



Councilor
Andrea De
Vizcaya-
Ruiz



Councilor
Irfan
Rahman



Councilor
Ilona
Jaspers



Councilor
Judy
Zelikoff



Postdoctoral
Representative
Donald
Anderson



Student
Representative
Tamara Young

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ANY NEW BUSINESS FROM the MEMBERSHIP?

Please contribute to the Newsletter!





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Closure



**All slides will be available from
www.toxicology.org/groups/ss/IRSS**





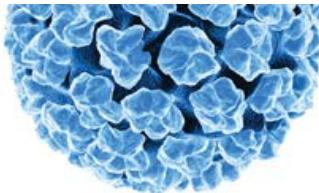
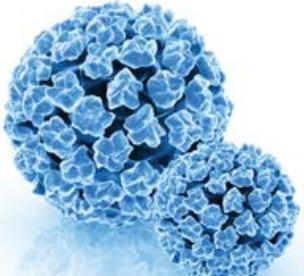
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IPXII
Inhaled Particles XII