

Mixtures Specialty Section Newsletter

Volume 3, Issue 2

February 2013

President's Message

Ken Wallace, PhD

MixSS President

University of Minnesota



To all fellow members of the Mixtures Specialty Section, I eagerly look forward to seeing you at the rapidly approaching Annual Meeting of SOT. I remind you that our Specialty Section Business Meeting is Tuesday evening, 6:00-7:30 (Grand Hyatt Bowie). I hope all of you will join us for this celebratory event.

Looking back over the year I am very pleased to recount the growth in membership of our Section, the financial stability of our accounts, and the broadening scope of activities and opportunities made available to our members. A major highlight has been the expanding role of the Mixtures Specialty Section in jointly sponsoring webinars on topics of mixture toxicology in conjunction with the Risk Assessment Specialty Section. Much of this success owes to the energy and commitment of our Councilors and Officers who have embraced the charge of growing the impact of the section to better serve our members.

The Mixtures Specialty Section will be highly visible at this Annual Meeting; our members are participating in a number of Continuing Education Courses and presenting their most recent scientific advances in several scientific symposia, workshops and round-tables. Members of our Specialty Section will be making a significant contribution to the buzz that envelops the Convention Center at each meeting of the SOT.

A highlight of the meeting for each of us will be to congregate Tuesday evening at our annual business meeting. This is always a time for renewing old friendships and making new acquaintances as we review the past year of activities of the Specialty Section and the achievements of our individual members. Once again, we will be recognizing the outstanding accomplishments of our members by presenting awards for the best abstract and posters presented at this year's Annual meeting. I hope each of you are able to join us in this special occasion for celebration.

Sincerely,



Kendall B. Wallace, Ph.D.

Mixtures Activities at SOT 2013 San Antonio

Cynthia Rider, PhD
MixSS Secretary/Treasurer
NIEHS/DNTP



Sunday, March 10

Awards ceremony: Join us in recognizing **Moiz Mumtaz, PhD** – founding president of the SOT MixSS as he accepts the prestigious *Arnold J. Lehman Award* for his excellent work in risk assessment and mixtures.

When: 5:15 pm – 6:30 pm

Where: CC Grand Ballroom C1



Congratulations, Moiz!

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Monday, March 11

Workshop Session: Inhaled Mixtures: A Mode-of-Action Framework Applied to the Criteria Air Pollutants (*endorsed by MixSS*)

Session chairs: Elizabeth O. Owens (US EPA) and Christal Bowman (Bayer CropScience)

Speakers: B. Buckley (US EPA), M.L. Block (Medical College of Virginia), M. Campen (University of New Mexico), A. Rohr (Electric Power Research Institute)

When: 9:15 am – 12:00 noon

Where: Grand Ballroom C2

Historical Highlights Session: Diesel and Gasoline Exhaust and Cancer (*endorsed by MixSS*)

Session chairs: Annemoon M. van Erp (Health Effects Institute) and Jacob D. McDonald (Lovelace Respiratory Research Institute)

Speakers: Roger O. McClellan (Toxicology and Human Health Risk Analysis), Jacob D. McDonald (Lovelace Respiratory Research Institute), Eric Garshick (Veterans Administration Boston Health Care System)

When: 12:10 pm – 1:30 pm

Where: Room 206

Poster Session: Chemical Mixtures

When: 1:00 pm – 4:30 pm

Where: Exhibit Hall C-D

Tuesday, March 12

Officers' meeting

Although the officers' meeting is generally a closed meeting, MixSS members are invited to provide their input and suggestions to officers prior to the meeting (cynthia.rider@nih.gov).

When: 7:30 am

Where: Hilton Hotel

Symposium Session: From Inhaled Particles to Cardiovascular Disease and Toxicity: Evidence from Studies in Volunteers, Experimental Animals, and Cell-Based Systems (*endorsed by MixSS*)

Session chairs: Flemming R. Cassee (National Institute for Public Health and the Environment) and Howard Kipen (University of Medicine and Dentistry of New Jersey)

Speakers: H. Kipen (University of Medicine and Dentistry of New Jersey), M. Riediker (Institute for Occupational Health Sciences), A.K. Lund (Lovelace Respiratory Research Institute), M.E. Gerlofs-Nijland (National Institute for Public Health and the Environment), M. Miller (University of Edinburgh)

When: 9:00 am – 11:45 am

Where: Room 214 C&D

MixSS Meeting/Reception

Please join us for the annual MixSS business meeting and reception! Network with mixtures scientists, hear updates about the MixSS, and provide your input for future activities and program development for SOT 2014.

When: 6:00 pm – 7:30 pm

Where: Grand Hyatt Bowie

Wednesday, March 13

Regional Interest Session: Assessment of Environmental, Dietary, and Biological Risk Factors Impacting Liver Cancer Incidence in Texas (*endorsed by MixSS*)

Session chairs: Erica D. Bruce (Baylor University) and Amelia Romoser (Texas A&M University)

Speakers: J.F. Villanacci (Texas Department of State Health Services), L. Cizmas (Texas A&M University), M. Hassan (The University of Texas MD Anderson Cancer Center), R.M. Santella (Columbia University), T.D. Phillips (Texas A&M University), F.A. Guerra (University of Texas Health Science Center)

When: 1:30 pm – 4:15 pm

Where: Grand Ballroom C2

Thursday, March 14

Symposium Session: Role of Air Pollution As a Risk Factor for Central Nervous System Diseases and Disorders (*endorsed by MixSS*)

Session chairs: Deborah Cory-Slechta (University of Rochester) and Michelle L. Block (Virginia Commonwealth University)

Speakers: D.A. Slechta (University of Rochester), M.L. Block (Virginia Commonwealth University), A. Elder (University of Rochester), I. Hertz-Pannier (University of California Davis), S. Rivas-Arancibia (Universidad Nacional Autónoma de México)

When: 9:00 am – 11:45 am

Where: Room 214 C&D

Symposium Session: Translational Methods to Assess the Safety of Natural Health Products, Including Traditional Medicines and Dietary Supplements (*endorsed by MixSS*)

Session chairs: James C. Griffiths (US Pharmacopeia) and Scott A. Jordan (Health Canada)

Speakers: S.A. Jordan (Health Canada), L.G. Valerio (US FDA), W.F. Salminen (US FDA), D.E. Johnson (University of California Berkley), Y. Kang (University of Louisville School of Medicine), M.L.

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Hardy (University of California Los Angeles)

When: 9:00 am – 11:45 am

Where: Room 205

Workshop Session: Cumulative Risk: Toxicity and Interactions of Physical and Chemical Stressors (*sponsored by MixSS*)

Session chairs: Jane Ellen Simmons (US EPA) and Cynthia Rider (NTP/NIEHS)

Speakers: M. Selgrade (ICF International), T.C. Morata (NIOSH), C.J. Gordon (US EPA), K. Bokelheide (Brown University), K.G. Sexton (University of North Carolina Chapel Hill)

When: 9:00 am – 11:45 am

Where: Room 217 A&B

Join us for the next joint MixSS and Risk Assessment SS Seminar

Speaker: Jack Harkema, DVM, PhD, DACVP, Michigan State University

Title: Health Effects of Multipollutant Airsheds

When: April 10, 2013 at 3 pm

Details about the webinar will be posted on the Risk Assessment SS website in late March

(<http://www.toxicology.org/ISOT/SS/RiskAssess/index.asp>)

CALL FOR 2014 SESSION PROPOSALS

The Mixtures Specialty Section Executive Committee invites all MixSS members to submit mixtures-related proposals for the 2014 SOT Annual Meeting in Phoenix, Arizona, March 23-27, 2014. The SOT HQ deadline for submission of proposals to the Program Committee is April 30, 2013 and it is requested that all proposals be submitted to Dr. David Mattie (david.mattie@wpafb.af.mil) by March 1, 2013 so there is sufficient time for review and feedback by the MSS Executive Committee prior to submission.

Thank you to our outgoing officers!

Your service to the MixSS has been invaluable and we look forward to your continued involvement:

Ken Sexton (Councilor)

Xianglu Han (Post doctoral Representative)

Julia Rager (Graduate Student Representative)

Meet the New MixSS Officers

Vice President-Elect: David Herr (EPA)



Dr. David Herr received his Ph.D. from the University of North Carolina at Chapel Hill in 1988. After post doctoral training at NIEHS and the US EPA, he transitioned to the Neurotoxicology Division at the US EPA. He currently serves as Branch Chief of the Neurotoxicology Branch. His interest in mixtures research began during work for his Master's Thesis in the early 1980's. His current interests involve both chemical mixtures and the interaction of chemicals with non-chemical stressors. Of particular interest is testing the assumptions of the application of dose-additivity in risk assessments. Dr. Herr is a member of the Risk Assessment Forum's Technical Panel for Cumulative Risk Assessment, and he has co-organized three workshops on Cumulative Risk Assessment. The output of the technical panel will involve the development of Cumulative Risk Assessment Guidelines for the EPA. Recently, he has accepted an appointment on the steering committee of a new HESI subcommittee on translational safety biomarker assessment of neurotoxicity. Applications of biomarkers in mixtures toxicology may be a future avenue for assessing the impact of non-chemical stressors and as a means to assess the effectiveness of intervention strategies.

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Secretary/Treasurer: Cynthia Rider (NTP)



Dr. Cynthia Rider was elected to a second term as Secretary Treasurer of the MixSS. She is a toxicologist with the National Toxicology Program, National Institute of Environmental Health Sciences, where she has been actively involved in mixtures research including work with polycyclic aromatic hydrocarbons. She received her B.S. from Tulane University and her Ph.D. from North Carolina State University in Environmental Toxicology. She served as the Mixtures Specialty Section post doctoral representative for 2 years (2009-2011) and as secretary/treasurer for the past 2 years (2011-present). Additionally, she has been the editor for the Mixtures Specialty Section Newsletter (2010-present).

Councilor: Melanie Doyle-Eisele (LRRI)



Dr. Doyle-Eisele is a Scientist and Associate Director of the Chemistry, Inhalation, and Exposure Program at Lovelace Respiratory Research Institute, where she is involved in various toxicological studies that evaluate the acute toxicity, deposition, pharmacokinetics, and efficacy utilizing a variety of respiratory disease models. Additional research includes pharmacokinetics and ADME studies evaluating various chemicals/pharmaceuticals (radiolabeled and non-labeled). Dr. Doyle-Eisele's other efforts have utilized her experience prior to LRRI with environmental chambers and toxicology to develop, characterize, and operate the Lovelace indoor environmental chamber to examine the toxicity of biogenic and anthropogenic air pollutants. She received her doctorate in Atmospheric Chemistry and

Inhalation Toxicology from University of North Carolina, Chapel Hill in 2006. She has been a member of the SOT since 2003.

Post doctoral Representative: Paul Eden (Wright-Patterson Air Force Base)



Dr. Eden is the Toxicology Program Manager at the 711th Human Performance Wing, Wright-Patterson Air Force Base, OH where he manages a broad aerospace toxicology program and serves as a subject matter expert on Air Force-related toxicology issues. He received his doctorate in Environmental Toxicology from Mississippi State University in 2012. Dr. Eden has served as a Medical Laboratory Officer for the US Air Force for 12 years. Dr. Eden has been a member of the SOT since 2010.

Graduate Student Representative: Nicole Kurhanewicz (UNC)



Nicole Kurhanewicz is a doctoral candidate in the Curriculum of Toxicology at the University of North Carolina. Nicole received a bachelor of science degree in Chemistry from Oregon State University in 2008. She current works under the direction of Dr. Mehdi Hazari at the EPA in Research Triangle Park, NC. In this lab, she is participating in research exploring the neuro-physiological mechanisms which may mediate adverse cardiopulmonary responses to air pollutant mixtures. Her research is currently focused on particulate matter and ozone co-exposures. Future research will involve the assessment of more complex mixtures including diesel exhaust and smog.