ANNUAL REPORT: 2012-2013
May 1, 2012 to April 30, 2013

I. Officers/Committees:

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<th>Officer/Committee</th>
<th>2011-2012</th>
<th>2012-2013</th>
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<tr>
<td>President</td>
<td>Michael Dourson</td>
<td>Kendall Wallace</td>
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<td>Vice President</td>
<td>Kendall Wallace</td>
<td>David Mattie</td>
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<tr>
<td>Vice President-Elect</td>
<td>David Mattie</td>
<td>Bruce Fowler</td>
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<tr>
<td>Secretary/Treasurer</td>
<td>Cynthia Rider</td>
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<td>Past President</td>
<td>Kannan Krishnan</td>
<td>Michael Dourson</td>
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<td>Councilors</td>
<td>Paul Price</td>
<td>Kembra Howdeshell</td>
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<td>Kenneth Sexton</td>
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<td>PDA Representative</td>
<td>Xianglu Han</td>
<td>Xianglu Han</td>
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<td>GSLC Representative</td>
<td>Julia Rager</td>
<td>Julia Rager</td>
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Committees:

II. Activities:

2013 SOT Annual Mixtures Specialty Section (MSS) Meeting Reception was held in San Antonio on Tuesday, March 12, 2013.

Approximately 75 people were in attendance.

Dr. Wallace called the meeting to order at 6:00 PM.

Meeting Minutes: (see Attachment I)

- Hors d’oeuvres and networking
- Kendall Wallace welcomed everyone and provided an update on recent MSS activities.
- Cynthia Rider provided the financial statement ($4237 as of January) and discussed the Newsletter.
- Michael Dourson announced the top 10 mixtures abstracts and winner of the best abstract award and presented plaques and checks for the best graduate student award and the best postdoctoral award.
- Michael Dourson presented a plaque of appreciation to outgoing president Kendall Wallace.
- Kendall Wallace discussed proposal submission for SOT 2014 and informed membership of current mixtures-related proposals under development.

Awards:

**Best Mixtures Abstract:** Daniel Borg (Karolinska Institutet) - plaque

**Graduate Student Award:** Dana Lauterstein (New York University), Title: Effects of a Smokeless Tobacco, Gutkha on Neurotransmitter Levels and Associated Parameters in the Mouse Brain – plaque, certificate and $500 from Wiley
Post doctoral Award: Rhiannon David, PhD (Imperial College London), Title: Mixtures of Benzo[a]pyrene with Direct or Indirect Acting Mutagens Have a Nonmonotonic Mutation Profile – plaque, certificate and $500 from Wiley

Top 10 abstracts (listed alphabetically by first author below) were awarded blue ribbons during their poster presentations:

- Authors: G.V. Alexeeff, J. Faust, L. August, R. Cendak, W. Wieland, T. Kadir, L. Cushing, K. Randles, C. Milanes, L. Zeise; Title: California Communities Environmental Health Screening Tool (CalEnviroScreen); Abstract #878
- Authors: D. Borg, B.O. Lund, N.G. Lindquist, H. Håkansson; Title: Individual and Cumulative Health Risk Assessment of 17 PFASs in the Swedish Population; Abstract #570
- Authors: J. Gruber, R.D. Patel, J.E. Rager, A.P. Sanders, S. Edwards, J.E. Gallagher, R.C. Fry; Title: Exposure to Metals Mixtures: Genomic Alterations of Infectious Disease Response Pathways in Children Exposed to Environmental Metals; Abstract #698
- Authors: B. Hannas, J.R. Furr, L.E. Gray, V.S. Wilson; Title: Comparison of Estrogen Mixtures In Vitro vs In Vivo; Abstract #2111
- Authors: W. Lichtensteiger, C. Bassetti-Gaillle, O. Faass, J. Boberg, S. Christiansen, U. Hass, A. Kortenkamp, M. Schlumpf; Title: Effects of Different Endocrine Disruptor Mixtures on Gene Expression in Neonatal Rat Brain Regions: Focus on Developing Excitatory Synapses; Abstract #1383
- Authors: A.K. Tiwary, R.I. Magaw, D.A. Zemo, K.T. O'Reilly, R.E. Mohler, K.A. Synoweic; Title: Reference Dose (RfD)-Based Chronic Human Health Hazard Ranking System for Complex Mixtures—Assessment of Polar Nonhydrocarbons in Groundwater at Biodegrading Petroleum Sites; Abstract #565
- Authors: V.S. Wilson, J.R. Furr, C. Lambright, B. Hannas, L.E. Gray; Title: Cumulative Effects of a 9 Phthalate Mixture on Charles River-Sprague-Dawley (CR-SD) Fetal Rat Testis Testosterone (T) Production and Gene Expression; Abstract #2134
- Authors: C.J. Wolf, C. Rider, C. Lau, B.D. Abbott; Title: Evaluation of Additivity of Binary Mixtures of Perfluoroalkyl Acids (PFAAs) on Peroxisome Proliferator-Activated Receptor-Alpha (PPARα) Activation In Vitro; Abstract #564
- Authors: K. Zaccaria, P. McClure; Title: Associations between Carcinogenic and Immune Suppression Activities of PaHs: Insights into Improving Cancer Risk Assessment for PAH Mixtures; Abstract #1966
- Authors: J. Zavala, K. Lichtveld, S. Ebersviller, G.W. Walters, H.E. Jeffries, Kenneth G. Sexton, W. Vizuete, I. Rusyn, I. Jaspers; Title: Development of a Portable In Vitro System for Lab and Field Aerosol Exposure Studies; Abstract #574

2013 SOT Annual Meeting Courses/Sessions:

Session sponsored by MSS:

- **Workshop Session**: Cumulative Risk: Toxicity and Interactions of Physical and Chemical Stressors; **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)

Courses/Sessions endorsed by MSS:
• **Workshop Session:** Inhaled Mixtures: A Mode-of-Action Framework Applied to the Criteria Air Pollutants; **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)

• **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)

• **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)

• **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)

• **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-Picciotto (University of California Davis), S. Rivas-Arencibia (Universidad Nacional Autónoma de México)

• **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. Hardy (University of California Los Angeles)

Newsletters: Two Newsletters were sent to MSS membership during 2011-2012 (Aug 2012 and February 2013)

Webinars: The MSS co-sponsored a webinar with the Risk Assessment SS

- **Speaker:** Jack Harkema, DVM, PhD, DACVP, Michigan State University; **Title:** Health Effects of Multipollutant Airsheds; **When:** April 10, 2013 at 3 pm

Contributions to SOT website: annual report for 2011-2012, MSS Newsletters
Other Specialty Section 2011-2012 Activities: Mixtures Specialty Section Officers Meeting, Tuesday, March 12, 2013, 6:30-8:00 AM.
Attendees: Michael Dourson, Bruce Fowler, David Herr, Kembra Howdeshell, Nicole Kurhanewicz, Dave Mattie, Cynthia Rider, Ken Sexton

Teleconferences: Officers regularly participated in teleconferences throughout the year to discuss MSS business including: SOT Annual Meeting session submissions, awards, membership, and newsletter content.