I. Officers/Committees:

<table>
<thead>
<tr>
<th>Officers</th>
<th>2016-2017</th>
<th>2017-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>President:</td>
<td>Angela Slitt</td>
<td>Brian S Cummings</td>
</tr>
<tr>
<td>Vice President:</td>
<td>Brian S Cummings</td>
<td>Donna D Zhang</td>
</tr>
<tr>
<td>Vice President-Elect:</td>
<td>Donna D Zhang</td>
<td>Rhiannon N Hardwick</td>
</tr>
</tbody>
</table>
| Secretary/Treasurer:         | Rhiannon N Hardwick | Martin J Ronis;
| Past President               | Richard R Vaillancourt | Angela Slitt;
| Councilors:                  | Daniel David Petersen | Udayan M Apte;
|                              | Udayan M Apte   | Kristina Wolf   |
| PDA Representative:          | Chad Brocker    | Dwayne Edwin Carter|
| GSLC Representative:         | Blessy A George | Kyle Saitta     |

II. Activities:

2018 SOT Annual Meeting Reception was held in San Antonio, Texas on March 15th 2018. Approximately 100 people were in attendance. Dr. Cummings called the meeting to order at 6PM on March 15th. Business Meeting Speaker: None Meeting Minutes: (see Attachment 1)

Election results for new mechanisms officers were presented:

Dr. Brian Day, National Jewish Health was elected Vice-President Elect
Dr. James Luyendyk Jr., Michigan State was elected Councilor
Dr. Laura Armstrong, Rutgers was elected Postdoctoral Representative
Mr. Cody Schmidlin, University of Arizona was elected Student Representative

Awards:

Sheldon Murphy Travel Award:

Joseph Kochmanski, University of Michigan.
Longitudinal Effects of Developmental Bisphenol A Exposure on Epigenome-wide DNA Methylation
and Hydroxymethylation in Mouse Blood.
Yvonne Chang, Oregon State University.
Mechanistically Profiling PAH Biosignatures in 3D HBEC.
Ramiya Kumar, Clemson University.
Male Cyp2b9/10/13-null mice show increased susceptibility to high-fat diet induced obesity.

Krishna Prahlad Maremanda, National Institute of Pharmaceutical Education and Research (NIPER), Mohali, India.
Zinc-deficient diet exacerbates testicular and epididymal damage by increasing oxidative stress and altering zinc, insulin, testosterone signaling in type 2 diabetic rat.

John T. Szilagyi, Rutgers University.
The Endocannabinoid Anandamide Inhibits the Fetoprotective Activity of the Placental Efflux Transporter BCRP

Ronald G. Thurman Student Travel Award:

Ian Huck, University of Kansas Medical Center
Paradoxical Protective Effect of PFOA and PFOS Against High Fat Diet Induced Hepatic Steatosis In Mice

Quian Lin, University of Louisville
A novel fibroblast growth factor 1 variant reverses nonalcoholic fatty liver disease in type 2 diabetes

Postdoctoral Student Travel Award:

Samantha Farber, University of North Carolina Chapel Hill
Diesel Exhaust Particles Downregulate PI3K/Akt/mTOR Signaling and Mitochondrial Bioenergetics in A Novel Organotypic Model of the Airway Microenvironment

Alisa Suen, ORISE US EPA
The SIX1 oncoprotein mediates aberrant uterine basal cell development following neonatal exposure to diethylstilbestrol

Robert J. Rubin Student Travel Award:

Jalissa Nguyen Wynder, University of Wisconsin-Madison
Evaluating the Applicability of Read-across Tools and High Throughput Assays for Assessment of Toxic Chemicals

Renal Toxicology Award:

1st Place: Maria Beatriz Monteiro, Harvard Medical School
A High-Throughput Screen Identifies Novel Targets for Kidney Tubular Regeneration

2nd Place: Yu-Wei Change, Texas Tech University
Arsenic exposure induces toxicity and fibrotic changes in human kidney epithelial cells

3rd Place: Firas Alhasson, University of South Carolina
Microcystin exposure modulates NOX-2-miR21 axis in extopic glomerular toxicity in underlying nonalcoholic fatty liver disease (NAFLD)
Mechanisms Career Achievement Award:

Dr. Debra Laskin, Professor and Chair, Department of Pharmacology and Toxicology, Rutgers University.

Gabriel L. Plaa, Education Award:

1st Place:  
Jessica Hartman, Duke University  
Humanized, Transgenic Caenorhabditis elegans to Study CYP2E1-Induced Toxicity

2nd Place:  
Matthew Dodson, University of Arizona  
Arsenic Inhibits Autophagic Flux by Disrupting STX17-SNAP29-VAMP8 Complex Formation

3rd Place:  
Laura Armstrong, Rutgers University  
The Role of Hepatocyte-Specific Farnesoid X Receptor (FXR) and Lipocalin 2 (Lcn2) in the Acute Phase Response

Carl C. Smith Graduate Student Award:

1st Place  
Katelyn Lavrich – University of North Carolina at Chapel Hill  
Air Pollutant 1,2-Naphthoquinone Inhibits Glycolysis through Peroxide-Mediated Protein Inactivation in Human Bronchial Epithelial Cells

2nd Place  
Dharmin Rokad – Iowa State University  
Manganese Exposure Enhances the Release of Misfolded α-Synuclein via Exosomes by Impairing Endosomal Trafficking Machinery

3rd Place  
John Szilagyi – Rutgers University  
The Endocannabinoid Anandamide Inhibits the Fetoprotective Activity of the Placental Efflux Transporter BCRP/ABCG2

2018 SOT Annual Meeting Courses/Sessions:

<table>
<thead>
<tr>
<th>Session Type</th>
<th>Title</th>
<th>Date/Time</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symposium</td>
<td>Adipocyte Toxicology and Obesogens</td>
<td>Monday, March 12th, 1.45 PM</td>
<td>173</td>
</tr>
<tr>
<td>Symposium</td>
<td>Decoding Oxidative Stress from Inflammation: Implications for Exposure, Toxicity and Disease</td>
<td>Monday, March 12th</td>
<td>79</td>
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</table>
### Symposium

<table>
<thead>
<tr>
<th>Title</th>
<th>Date/Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revising Biology: Using Genomic and Epigenomic Editing to Gain Novel Insight into the Mechanisms of Toxic Exposure Effects and Susceptibility</td>
<td>Monday, March 12th 1.45 PM</td>
<td>113</td>
</tr>
<tr>
<td>Predicting Drug-Induced Cholestatic Injury in Humans</td>
<td>Monday, March 12th 9.15 AM</td>
<td>27</td>
</tr>
<tr>
<td>Effectively Leveraging Cellular Functional Genomics Strategies for Elucidating Chemical Mechanism of Action</td>
<td>Tuesday, March 13th 1.30 PM</td>
<td>158</td>
</tr>
<tr>
<td>Mitochondria Biogenesis and Dysfunction in Cellular Senescence in the Cardiopulmonary System</td>
<td>Tuesday, March 13th 8.00 AM</td>
<td>32</td>
</tr>
<tr>
<td>The Role of the Epigenome in the Etiology of Metal-Induced Disease</td>
<td>Wednesday, March 14th 1.30 PM</td>
<td>62</td>
</tr>
</tbody>
</table>

### Endowment Fund Details:

<table>
<thead>
<tr>
<th>Quarterly Report</th>
<th>Sheldon D. Murphy Award</th>
<th>Ronald G. Thurman Award</th>
<th>Robert J. Rubin Award</th>
<th>Renal Toxicology Award</th>
<th>Gabriel L. Plaa Education Award</th>
<th>Carl C. Smith Graduate Student Award</th>
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</thead>
<tbody>
<tr>
<td>Gain/Loss</td>
<td>3,320</td>
<td>1,782</td>
<td>1,576</td>
<td>2,615</td>
<td>3,394</td>
<td>3,952</td>
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<tr>
<td>Contributions (SOT Match)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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Newsletters: 1

Teleseminars: 0

White Papers: 0

Contributions to SOT website: 0

Other Specialty Section 2017-2018 Activities:

None