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

I. Officers/Committees:

<table>
<thead>
<tr>
<th>Role</th>
<th>2015-2016</th>
<th>2016-2017</th>
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<tbody>
<tr>
<td>President</td>
<td>Hugh A. Barton</td>
<td>Sean M Hays</td>
</tr>
<tr>
<td>Vice President</td>
<td>Sean Hays</td>
<td>Elaina M Kenyon</td>
</tr>
<tr>
<td>Vice President-Elect</td>
<td>Elaina M. Kenyon</td>
<td>George Woodall</td>
</tr>
<tr>
<td>Secretary/Treasurer</td>
<td>Daniele Staskal Wikoff</td>
<td>Daniele Staskal Wikoff</td>
</tr>
<tr>
<td>Past President</td>
<td>John M DeSesso</td>
<td>Hugh A Barton*</td>
</tr>
<tr>
<td>Councilors</td>
<td>Michael H Lumpkin</td>
<td>John Norman*</td>
</tr>
<tr>
<td>PDA Representative</td>
<td>Kausar Begam Riaz Ahmed</td>
<td>Kausar Begam Riaz Ahmed*</td>
</tr>
<tr>
<td>GSLC Representative</td>
<td>Allison C Franzen</td>
<td>Sloane Tilly</td>
</tr>
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* Officers who rotated off May 2017.

II. Activities:

2017 SOT Annual Meeting Reception was held in Baltimore, MD on Monday, March 13, 2017. Approximately 325 people were in attendance.
Dr. Hays called the meeting to order at 6:30 PM on March 16, 2016.
Business Meeting Speaker: None
Meeting Minutes: Dr. Hays opened the business meeting with a welcome to all attendees following an initial networking period. He thanked the outgoing officers and welcomed the incoming officers. RASS members receiving SOT awards were recognized, including Lorenz Rohmberg (Merit Award),

Elaina Kenyon and George Woodall presented the 2017 Award Winners (student/post doc and best paper) with plaques and award checks. Handouts were available on tables listing all award winners and Top 10 best paper selections. The networking opportunities and reduced formal portion of the meeting seemed to be very well received and appreciated by the RASS membership.
Awards:

2017 RASS Award Winners

Perry J. Gehring Best Postdoctoral Fellow Abstract Award
Fabian Grimm, PhD. (Texas A&M University, College Station, TX); Advisor - Ivan Rusyn
Diversity in a dish: A population-based organotypic human in vitro model for cardiotoxicity testing

Perry J. Gehring Best Graduate Student Abstract Award
Abhishek Venkatratnam (University of North Carolina); Advisor - Ivan Rusyn
A population-wide study of metabolism and toxicodynamics of trichloroethylene using Collaborative Cross (CC) mouse panel provides critical insights into the mechanisms of inter-individual variability

Honorable Mention
Gopi Gadupudi, MS, PhD. (University of Iowa); Advisor - Larry W. Robertson
Diminished Phosphorylation of CREB Is a Key Event in the Dysregulation of Gluconeogenesis, Glycogenolysis, and Fatty Acid Oxidation in PCB126 Hepatotoxicity.

Robert J. Rubin Student Travel Award
Yvonne Chang (Department of Environmental and Molecular Toxicology, Oregon State University);
Advisor - Susan C. Tilton
PAHs Differentially Regulate Transcription in Human 3D Bronchial Epithelium

Honorable Mention
Gopi Gadupudi, MS, PhD. (University of Iowa); Advisor - Larry W. Robertson
Diminished Phosphorylation of CREB Is a Key Event in the Dysregulation of Gluconeogenesis, Glycogenolysis, and Fatty Acid Oxidation in PCB126 Hepatotoxicity.

John Doull Award
Tanzir B. Mortuza (University of Georgia); Advisor – James V. Bruckner
Age-dependent Toxicokinetics (TK) of Trans-Permethrin (TRANS) in Adult and Juvenile Sprague-Dawley (SD) Rats

RASS Trainee Award
Joseph Cichocki, PhD (Texas A&M University, College Station, TX); Advisor - Ivan Rusyn
Non-Alcoholic Fatty Liver Disease as a Modifier of Perchloroethylene-Induced Toxicity
2017 BEST ABSTRACT AWARD WINNERS

Best Abstract
D.E. Hines, S.W. Edwards, R.B. Conolly, and A.M. Jarabek. Cross-Species Integration of Human Health and Ecological Endpoints Using the Aggregate Exposure Pathway (AEP) and Adverse Outcome Pathway (AOP) Frameworks to Advance Risk Assessment

Other Top 10 Abstracts (in order of abstract number)
Incorporation of Human Relevant Metabolism for the Classification of Xenobiotics as Mutagens

H.M. Bolstad, R. Woods, and L. Lim
A Bounding Approach for Reference Dose Estimation Using Human, Animal, and High Throughput Data: Chlorpyrifos As a Case Study

C. Clark and H. Goeden
Providing Risk Context for Environmental Contaminants with Minimal Toxicity Data

P.S. Price, K.L. Dionisio, H. Hubbard, and G. Graham
Developing a Rich Definition of the Person/Residence to Support Models of Consumer Product Usage

D.S. Wikoff, J. Rager, S. Harvey, L. Haws, G. Chappell, and S. Borghoff
Framework for Quantitative Consideration of Study Quality and Relevance in the Systematic Evaluation of Mechanistic Data per the Ten Key Characteristics of Carcinogens

Application of Quantitative Adverse Outcome Pathways to Rapid Screening for Adverse Outcome. R.B.


Evaluation of Parameter Settings in Genomic Benchmark Dose Analysis That Minimize False Discovery and Maximize Reproducibility
A Systems Approach to Predict and Classify Toxicity In Vitro.

2016 Best Paper Demonstrating an Application of Risk Assessment


2016 Top Papers Demonstrating an Application of Risk Assessment


2016 Best Paper Advancing the Science of Risk Assessment


2016 Top Papers Advancing the Science of Risk Assessment


2016 SOT Annual Meeting Courses/Sessions endorsed by RASS:
Sponsored 3 Symposia, 4 Workshops, 1 Roundtable, 1 Informational Session, 2 Continuing Education Courses

Newsletters (October 2016, March 2017)

Endowment Fund Details:

RASS is the benefactor of three existing funds and one new fund, each of which supports student travel awards. Each of the award recipients, identified above, received a travel award ($1,000 each for the John Doull Endowment Student Award, both the Student and Post Doc Perry Gehring Endowment Awards; and for the Robert J. Rubin Endowment Student Travel Award with an additional $500 award for a second Rubin fund award). All awards going forward will be $1,500.

<table>
<thead>
<tr>
<th>Fund</th>
<th>Beginning Balance (July 1, 2016)</th>
<th>Income</th>
<th>Gain on Investments</th>
<th>Disbursements</th>
<th>Revenue over Expenses</th>
<th>March 31, 2017 Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doull</td>
<td>$41,160</td>
<td>$1,000</td>
<td>$3,408</td>
<td>$1,000</td>
<td>$3,408</td>
<td>$44,568</td>
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<tr>
<td>Gehring</td>
<td>$44,805</td>
<td>$700</td>
<td>$3,664</td>
<td>$1,821</td>
<td>$2,572</td>
<td>$47,377</td>
</tr>
<tr>
<td>Rubin</td>
<td>$41,438</td>
<td>$1,000</td>
<td>$3,372</td>
<td>$1,500</td>
<td>$2,872</td>
<td>$44,311</td>
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<tr>
<td>Clewell &amp; Andersen Training Award</td>
<td>$0</td>
<td>$50,200</td>
<td>$580</td>
<td>$0</td>
<td>$580</td>
<td>$50,780</td>
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Newsletters:

October 2016
March 2017

Webinars:

- Another successful proposal to procure financial support
  - Thanks again to *SOT Council Subcommittee for Non-SOT Meeting Funding*
- Series notes
  - 4 in Fall (Sept – Dec) and 4 in Spring (Jan, Feb, April, May)
  - Average attendance: 60 lines
  - Diverse set of cutting-edge topics and speakers across all sectors
  - Recordings can be found at: [https://www.toxicology.org/groups/ss/RASS/downloads.asp](https://www.toxicology.org/groups/ss/RASS/downloads.asp)
- Special stats:
- MixSS continues to co-sponsor 1 each season:
  - Fall (September) and Spring (January)
- First-ever co-sponsorship with International Society for Exposure Science (ISES):
  - December 2016 and upcoming in May 2017

Webinar May 10, 2017: Putting Exposure Back in Risk Assessment (Or: The Dose Makes the Poison) • Webinar Recording
Webinar April 12, 2017: Crowdsourcing Scientific Perspectives with SciPinion™: Hexavalent Chromium as a Case Study • Webinar Recording
Webinar February 8, 2017: How Can Mechanistic Data from Systems Approaches Improve our Understanding of Carcinogenic Risk for Mixtures? • Webinar Recording
Webinar January 11, 2017: German Environmental Survey and Environmental Specimen Bank and the Use of Human Biomonitoring Data for Risk Assessment • Webinar Recording
Webinar December 14, 2016: Aggregate Exposure Pathway (AEP): An Organizational Approach for Advancing Exposure Science Research and Applications • Webinar Recording
Webinar November 9, 2016: Improving Causal Inference in Cumulative Risk Assessment Using Directed Acyclic Graphs • Webinar Recording
Webinar October 12, 2016: Overview of TSCA Reform and Introduction to Key Provisions in the New Lautenberg Law • Webinar Recording
Webinar September 14, 2016: Incorporating Non-Chemical Stressors into Cumulative Risk Assessment (CRA) • Webinar Recording
Webinar May 11, 2016: Unconventional Gas and Oil Drilling Is Associated with Increased Hospital Utilization Rates • Webinar Recording
Webinar April 13, 2016: Studying Biology to Understand Risk: Dosimetry Models and Quantitative Adverse Outcome Pathways • Webinar Recording
Webinar February 10, 2016: Characterization of Murine Hepatocarcinogenesis Induced by the Nitrification Inhibitor Nitrapyrin: Mode of Action, Human Relevance Framework and Risk Assessment Implications • Webinar Recording
Webinar January 13, 2016: Health Effects of Mixtures: Comparing Approaches in Epidemiology and Toxicology (with a discussion of the July 2015 NIEHS Workshop entitled “Statistical Approaches for Assessing Health Effects of Environmental Chemical Mixtures in
White Papers: None

Contributions to SOT website: The RASS website was updated several times during the year to provide current information for members. Newsletters, award winners, and photographs from 2016 and 2017 meetings were posted. RASS webinars and recordings are posted to the website for each presentation.

Other Specialty Section 2015-2016 Activities:

RASS GSLC and PDA representatives organized a mentoring luncheon at the annual SOT meeting for students and post-docs to learn more about careers in risk assessment. It was well attended by about 30 mentors and mentees. Invited mentors each spoke briefly describing their career paths in risk assessment and perspectives on opportunities and skills of importance.

With the assistance of an appointed committee of 18 members, RASS reviewed all potentially relevant papers published between January 1, 2016 and December 31, 2016 for consideration of two RASS Best Paper Awards – 1) Best Paper Demonstrating an Application of Risk Assessment and 2) Best Paper Advancing the Science of Risk Assessment. Winners were selected, along with the top papers in each category, and awards were presented during the RASS mixer.

With the assistance of an appointed committee of 15 members, RASS reviewed all potentially relevant risk assessment abstracts accepted for the 2015 Annual meeting. A winner was selected, along with the top 10 abstracts and ribbons were presented to all winners at their oral/poster presentations. Winners were also recognized during the RASS mixer.

With the assistance of an appointed committee of 12 members, RASS reviewed all applications received from candidates for the RASS student and postdoc awards. Winners were selected, ribbons were presented to all winners at their oral/poster presentations, and winners were presented with plaques and monetary awards at the RASS mixer.

Developed a poster that contained details of sponsored/endorsed sessions, award winners and other information pertinent to RASS’ annual meeting activities; poster displayed at SOT Pavilion, at GLSC and PDA receptions, and at RASS Mixer.

Officer’s breakfast meeting Monday, March 13, 2017. – Of specific note is that the dates/times and locations of RASS’ award winning abstracts were identified and RASS officers volunteered to present award ribbons to presenters at their posters. In coming officers were invited so they could meet current officers.
At the request of SOT, RASS established an Endowment Fund Steward Committee to raise money for the three named award funds. A goal was established of bringing each fund up to $50,000 over the next year.

**Outreach to new SOT members potentially interested in RASS.**

A RASS program committee composed of officers and approximately 15 RASS members provided reviews for proposals for the coming year SOT meeting. Pre-reviews were provided to those sharing their draft proposals early to provide RASS perspectives and suggestions for improvements. Proposals submitted to SOT requesting RASS sponsorship were reviewed by the committee, rated, and ranked and comments provided back to the SOT Program Committee.

RASS officers held monthly or bimonthly conference calls to co-ordinate activities, including program proposal reviews, awards committees, the annual meeting reception, newsletters, and website updates.

**Newly elected officers were:**
Gary Minsavage – Vice President Elect
Kan Shao – Secretary/Treasurer
Nathan Pechacek – Councilor
Cissy Li – Post Doc Representative