

# Nanotoxicology Specialty Section Newsletter

Volume 5, Issue 1 (June 2015)

## ***President's Message***

I hope that you all had an enjoyable and rewarding time at the 2015 SOT Conference in San Diego. As my first order of business as President of the Nanotoxicology Specialty Section (NTSS), I would like to acknowledge the outgoing officers for their enthusiasm and leadership over the last few years of service to the Nanotoxicology Specialty Section (NTSS). Our 2014-2015 President, Saber Hussain, has moved into his role as immediate Past President and I would like to sincerely thank Saber for his outstanding leadership. The commitment of Edward Reverdy, (Secretary/Treasurer), Andrij Holian (Councilor), Mary Popovech (Graduate Student Representative), and Matthew Grogg (Postdoctoral Representative) heightened engagement throughout of our membership. Thank you for dedicating your time to the NTSS and for all of your exemplary contributions which enhanced the development of our specialty section!

At the 2015 annual meeting, we also welcomed several new and returning officers: Robert Tanguay (Vice President), Tim Nurkiewicz (VP-Elect), Brian Thrall (Secretary/Treasurer), Jared Brown and Tara Sabo-Attwood (Councilors), Anurag Mishra (Postdoctoral Representative), Katie Dunnick (Student Representative), and David Ellis (Vice-Student Representative). I greatly appreciate enthusiasm of this team in planning and coordinating the activities of the NTSS.

We had another successful year with the mentor-mentee lunch/coffee meetings, so thank you to all of the people who participated. I want to recognize and thank the leadership of Mary Popovech, Katie Dunnick and Matt Grogg for organizing the mentor-mentee matches at the 2015 SOT meeting in San Diego, CA. In addition to this, we also took some time at the NTSS reception for a mentor-mentee networking session. The reception networking time and Starbucks gift certificates were popular as always! – I hope to continue these socializing events for our trainees at our NTSS reception at the 2016 SOT meeting in New Orleans. I would also like to thank David Warheit for engaging me in the NTSS reception debate. I hope this was as entertaining for you as it was for me.

We had excellent graduate students and postdocs receive awards this year and I would like to thank Robert Tanguay for organizing the awards competition. Please start thinking about potential students, post-docs, and publications to nominate for the NTSS awards this coming year.

I would also like to take this opportunity to thank all the NTSS members for their participation and wish you an enjoyable summer. I look forward to updating you again towards the end of the year with information and planning on the 2016 SOT Conference in New Orleans, LA.

~Jamie Bonner

## **Officers**

### **President**

James Bonner

### **Vice President**

Robert Tanguay

### **Vice President Elect**

Tim Nurkiewicz

### **Past President**

Saber Hussain

### **Secretary/Treasurer**

Brian Thrall

### **Councilors**

Tara Sabo-Attwood  
Jared Brown

### **Student**

### **Representative**

Katherine Dunnick

### **Postdoctoral**

### **Representative**

Anurag Mishra

### **Vice-Student**

### **Representative**

David Ellis

### **Newsletter Editor**

Brian Thrall

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## **Graduate Student and Post-Doc Activities**

NTSS Student and Postdoc webpage:  
<http://www.toxicology.org/groups/ss/nano/studpostdoc.asp>

Graduate Student Announcement Topics on ToXchange (requires log-in):  
<http://toxchange.toxicology.org/p/co/ly/gid=195>

Postdoctoral Assembly on ToXchange (requires log-in):  
<http://toxchange.toxicology.org/p/co/ly/gid=194>

Communiqué Blog: [http://toxchange.toxicology.org/p/bl/et/blogid=0\\$blogaid=761&source=6](http://toxchange.toxicology.org/p/bl/et/blogid=0$blogaid=761&source=6)  
*See recent post on Graduate Student Leadership Council (GSLC) announcements, (enter content here)*

Awards and Fellowships page on the SOT website:  
<http://www.toxicology.org/awards/sot/awards.asp>

*#In addition to NanoTox SS awards, students and postdocs are encouraged to apply for additional awards (e.g. travel awards, best publication award).*

### **We want to hear from you!**

Please feel free to share your comments and suggestions regarding current and future programs with the post-doc and student reps.

## **Join the Nanotoxicology Specialty Section**

You can join NTSS or pay membership dues at any time during the year through the SOT membership renewal. Members of the Society of Toxicology will become members of the SS upon payment of SS dues.

SOT Membership Information  
<http://www.toxicology.org/groups/membership/membership.asp>

## **Nanotoxicology Specialty Section Awards**

### **Start thinking about this early for the 2016 meeting in New Orleans!**

Three Nanotoxicology Specialty Section Awards are available each year. The Outstanding Graduate Student Award and the Outstanding Postdoctoral Awards include cash and an engraved plaque. When possible, second and third place awards are also made available. The primary criterion for these awards is the importance of the work to the field. Although preference will be given to Specialty Section and SOT members at large, students in other Specialty Sections are encouraged to apply. Materials to be submitted for the awards include: Accepted SOT abstract, extended abstract (2 pages maximum, tables/figures included), student CV, two letters of recommendation (one from primary advisor). Submit materials to Dr. Tim Nurkiewicz at West Virginia University [tnurkiewicz@hsc.wvu.edu](mailto:tnurkiewicz@hsc.wvu.edu).

In addition, The Best Publication Award recognizes significant contributions to the field of nanotoxicology. An engraved plaque is given to the first author of the paper. Selection criteria include the statement of a clear hypothesis, thoroughness of relevant nanomaterial physicochemical characterization, quality of data interpretation, and impact. At least one author of the paper must be a member of the Nanotoxicology Specialty Section.

For more information on Awards visit the Nanotoxicology SS website:

<http://www.toxicology.org/groups/ss/nano/index.asp>

\*\*\*\*\***THE SUBMISSION DEADLINE IS JANUARY 15, 2016\*\*\*\*\***

## ***Upcoming Elections***

The NTSS leadership is encouraging members to nominate colleagues or themselves to serve in an elected NTSS position for next year. A full slate of nominees will go to SOT headquarters at the end of December and, in January; we will elect the Vice-President-Elect, the Secretary/Treasurer, one Councilor, the Vice-Student Representative, and the Postdoc Representative. Please send nominations and direct any questions to Dr. Robert Tanguay or James Bonner (jcbonner@ncsu.edu).

## ***2014-2015 Webinar Series***

The Webinars for NTSS organized by Dr. Robert Tanguay this year and past year have been excellent. These webinar presentations are posted on the NTSS website:

<http://www.toxicology.org/groups/ss/nano/webinars.asp>

Presenter – Dr. David Berube, North Carolina State University

Title – Risk Communication and EHS: Some Precautions

Date: November 18, 2014

Presenter – Dr. Jeffery A. Stevens, U.S. Army Research and Development Center

Title - A Framework to Support Decision-Making: Tools for Classification, Release, and Exposure Assessment of Nanotechnology

Date – May 27<sup>th</sup>, 2015

Let us know if there is a particular topic or area of interest that you would like to see in an upcoming webinar. Please contact Dr. Tim Nurkiewicz: [tnurkiewicz@hsc.wvu.edu](mailto:tnurkiewicz@hsc.wvu.edu)

## ***SOT in New Orleans 2016***

The Scientific Program for the 2016 SOT meeting in March 13<sup>th</sup>-17<sup>th</sup> will feature some interesting scientific sessions that were endorsed by the NTSS. These are listed below.

As usual, we will host the NTSS Reception in New Orleans at the 2016 SOT Conference. We will update you in the next Newsletter once the details have been confirmed for the day, time and location in New Orleans. We hope you can join us!

The abstract submission deadline is Oct 7, 2015 and we look forward to favorable submission of nanotoxicology-based abstracts at SOT 2016 in New Orleans!

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### **Accepted 2016 SOT meeting scientific sessions endorsed by the Nanotoxicology Specialty Section:**

#### **Symposium: “Health and environmental hazard assessments of nanomaterials along their lifecycle”**

Session Chairs: Aaron Erdely and James Bonner. Speakers: Wendel Wohlleben, Phil Demokritou, Aaron Erdely, Paul Westerhoff, Mark Wiesner.

#### **Workshop: “*In vitro* dosimetry of engineered nanomaterials: Too complicated to consider too important to ignore”**

Session Chairs: Saber Hussain and Phil Demokritou. Speakers: Saber Hussain, Phil Demokritou, Trevor Tilly, Justin Teeguarden, Glen Deloid.

#### **Workshop: “Nanotoxicology and Ocular Drug Delivery: One Size Does Not Fit All”.** Session Chairpersons: Christopher Somps and Donald Fox. Speakers: Nigel Walker, Gerard Lutty, Muna Naash, William Boyes, Wiley Chambers.

#### **Workshop: “Challenges in the Development of Medical Devices with Minimal Toxicity Potential”.** Session Chairpersons: Niranjan Goud and Peter Goering. Speakers: James Anderson, Alexander Seifalain, Shelby Skoog, Jeff Schakenraad, Niranjan Goud

## **Secretary/Treasurer Report**

We encourage the Nanotoxicology Specialty Section membership to both recruit new members and suggest potential sponsors to meet our financial goal of \$20K for 2015.

The following is a breakdown of our estimated income and expenses through March 31, 2015:

Net assets at beginning of year,      \$12,423  
(July, 2014)

Estimated finances (FY2015)

- Contributions      550
- Dues, Registration\*      2,284
- Interest

**Income:**      **\$ 2,834**

- Awards:      1,500
- Plaques      169
- Reception:      5,864
- Executive Meeting\*      250
- Mentoring Activities\*      50

**Expenses:**      **\$ 7,833**

Net assets estimated in May 2015      **\$ 6,874**

\*(Estimated, actual dues or expenses not incurred as of June 1)

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*“If Toxicology is the study of poisons, then is  
Nanotoxicology the study of smaller poisons?”*

*- Unknown*

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## **2015- 2016 Executive Board**

The Executive Board was elected prior to the Annual SOT meeting in 2015. Please consider contacting any of us directly if you have thoughts about how the membership can best be served.



**Jamie Bonner**  
**President**



**Robert Tanquay**  
**Vice President**



**Tim Nurkiewicz**  
**Vice President Elect**



**Brian Thrall**  
**Secretary/Treasurer**



**Saber Hussain**  
**Past-President**



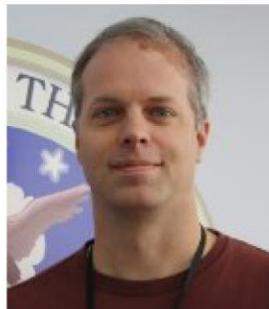
**Tara Sabo-Attwood**  
**Councilor**



**Jared Brown**  
**Councilor**



**Katherine Dunnick**  
**Student Representative**



**David Ellis**  
**Vice Student Representative**



**Anurag Mishra**  
**Postdoctoral Representative**

## 2015 NTSS Reception Awardees

The following awards were presented by VP-Elect Dr. Robert Tanguay:  
Graduate Student Awards:



1<sup>st</sup> place – Kelly Shipkowski  
NC State University  
Mentor: Dr. J. Bonner



2<sup>nd</sup> place – David Scoville  
University of Washington  
Mentor: Dr. T. Kavanagh



3<sup>rd</sup> place – Mario Aragon  
University of NM  
Mentor: Dr. M. Campen

Postdoctoral Fellow Awards:



1<sup>st</sup> place – Jonathan Shanahan, PhD  
UC Denver  
Mentor: Dr. J. Brown



2<sup>nd</sup> Place – Abhilash Sasidharan, PhD  
Kansas State University  
Mentor: Dr. N. Monteiro-Riviere

Best Publication Award:



Brittany Baisch, PhD  
University of Rochester  
Mentor: Dr. A. Elder

Baisch BL, Corson NM, Wade-Mercer P, Gelein R, Kennell AJ, Oberdörster G, Elder A\*. Equivalent Titanium Dioxide Nanoparticle Deposition by Intratracheal Instillation and Whole Body Inhalation: The Effect of Dose Rate on Acute Respiratory Tract Inflammation. *Particle and Fibre Toxicology*, 2014 11,5.