



# Nanotoxicology Specialty Section Newsletter

Volume 4, Issue 1 (November 2014)

## *President's Message*

I am honored to have the opportunity to serve as the NTSS president for this year. To begin, 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 2013-2014 President, Alison Elder, has now moved into her role of as the immediate Past President. I am sure that Alison will approach this role with the same dedication that she brought to her previous years of service as she continues to assist with NTSS activities. The commitment of Edward Reverdy, (secretary/treasurer), David W Hobson (councilor), Christin Grabinski (student representatives), and Amy Wang (postdoctoral association representative) have made new programs possible and heightened engagement across all sectors of our membership. Thank you for dedicating your time to the NTSS and for all of your exemplary contributions which have greatly contributed to the development of this specialty section!

At the 2014 annual meeting, we also welcomed several new and returning officers: Robert Tanguay (Vice President Elect), Edward Reverdy (Secretary/Treasurer), Andrij Holian and Jared Brown (Councilor), Mary Popovech (Student representative), Katherine Dunnick (Vice Student Representative) and Matthew Grogg (Postdoctoral Representative). All of these individuals show promise and enthusiasm to continue to grow the NTSS efforts.

We had another successful year with the mentor-mentee lunch/coffee meetings, so thank you to all of the people who participated. In addition to the NTSS contributions, the SOT Career Resource and Development committee matched funds to make this event possible. I want to recognize and thank the leadership of David Hobson, Christin Grabinski, Mary Popovech, and Amy Wang for organizing this event at the 2014 meeting in Phoenix, AZ. In addition to this, we also took some time at the NTSS reception for a mentor-mentee networking session. The Starbucks gift certificates seemed to be a hit – as well as the networking time! – So we hope to continue this for our next business meeting and reception at the 2015 SOT meeting in San Diego, CA.

Please start thinking about potential students, post-docs, and publications to nominate for the NTSS awards this year. We would like to see greater submission and participation from our members.

The NTSS annual report was submitted in August and is available on the SOT web site (see archives section of NTSS web page).

I would also like to take this opportunity to thank all the NTSS members for their participation, wish them safe travels in the approaching holiday season, and I look forward to seeing all of you in San Diego in March 2015.

~Saber Hussain

## Officers

**President**  
Saber Hussain

**Vice President**  
James Bonner

**Vice President Elect**  
Robert Tanguay

**Past President**  
Alison Elder

**Secretary/Treasurer**  
Ed Reverdy

**Councilors**  
Andrij Holian  
Jared Brown

**Student Representative**  
Mary Popovech

**Postdoctoral Representative**  
Matthew Grogg

**Vice-Student Representative**  
Katherine Dunnick

**Newsletter Editor**  
Ed Reverdy

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

NTSS Student and Post-doc webpage:

[www.toxicology.org/isot/ss/nano/studpostdoc.asp](http://www.toxicology.org/isot/ss/nano/studpostdoc.asp)

Graduate Student Announcement Topics on ToXchange (requires log-in):

[www.toxchange.toxicology.org/p/fo/si/topic=597](http://www.toxchange.toxicology.org/p/fo/si/topic=597)

Communique Blog:

[www.toxchange.toxicology.org/p/bl/et/blogid=0\\$blogaid=761&source=6](http://www.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:

[www.toxicology.org/ai/af/awards.aspx](http://www.toxicology.org/ai/af/awards.aspx) <sup>#</sup>*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.

## ***Nanotoxicology Specialty Section Awards***

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. Robert Tanguay at Oregon State University [robert.tanguay@oregonstate.edu](mailto:robert.tanguay@oregonstate.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 Specialty Section.

For more information on Awards visit the Nanotoxicology SS website:

[http://www.toxicology.org/isot/ss/nano/index.asp\[toxicology.org\]](http://www.toxicology.org/isot/ss/nano/index.asp[toxicology.org])

**\*\*\*\*\*THE SUBMISSION DEADLINE IS JANUARY 15, 2015\*\*\*\*\***

[http://www.toxicology.org/isot/ss/nano/index.asp\[toxicology.org\]](http://www.toxicology.org/isot/ss/nano/index.asp[toxicology.org])

## ***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. Jamie Bonner ([james\\_bonner@ncsu.edu](mailto:james_bonner@ncsu.edu)) or Dr. Saber Hussain ([Saber.Hussain@us.af.mil](mailto:Saber.Hussain@us.af.mil)).

## ***Pack Your Bags for San Diego!***

### ***Nanotoxicology Calendar of Scientific Sessions, Preliminary - SOT 2015***

The Scientific Program for the 2015 meeting in San Diego, CA does not have as strong of a nanotoxicology focus as previous years. However, there are two workshops with relevance to nanomaterials. Furthermore, the CE course “Is Synthetic Biology the Future of Toxicology?” while not directly endorsed by the NTSS this course will have one lecture specific to nanotoxicology and might be of interest. We anticipate great poster contributions provided by our members in the field and look forward to stimulating scientific discussions.

We will, of course, host the NTSS Reception. We will update you in the next Newsletter once the details have been confirmed for the day, time and location in San Diego, CA. We hope you can join us!

The abstract submission deadline was Oct 7, 2014 and we look forward to favorable submission of nanotoxicology-based abstracts at SOT 2015 in San Diego!

Is Synthetic Biology the Future of Toxicology?	Continuing Ed. PM10 Sunday March 22
Pulmonary Toxicity of Graphene Nanomaterials: An Emerging Concern in Manufacturing and Applications?	Workshop Monday March 23
Immune Responses to Different Classes of Inhaled Particulates: Unique vs. Shared Responses and Mechanisms	Symposium Tuesday March 24
Comprehensive Analysis of Nano Silver Toxicity Profiles: Known, Unknown, and Surprises!	Symposium Thursday March 26

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

The Webinar Series for NTSS continues in Fall 2014

1. Presenter – Dr. David Berube

Title – Risk Communications and EHS: Some Precautions

Date: November 18, 2014; 3:00 PM Eastern Standard Time (EST)

2. Presenter - TBA

Title

Date – February 2015

We hope these webinars have been informative in the past. 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. Robert Tanguay [robert.tanguay@oregonstate.edu](mailto:robert.tanguay@oregonstate.edu) with your ideas and interesting topics.

## *Secretary/Treasurer Report*

With 313 members (up from 297 last year), the NTSS remains in good financial shape.

The following is a breakdown of our estimated income and expenses as of Nov, 2014:

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

Estimated finances (FY2015)

- Contributions                     500
- Annual Dues                     4,000
- Registration                     2,200
- Interest                             550

**Income:**                             **\$ 7,250**

- Awards:                             2,000
- Reception:                         6,100
- Executive Meeting                 300
- Grad Stud Travel(50%)           350
- Mentor-Mentee Prog.             200

**Expenses:**                           **\$ 8950**

Net assets estimated in May 2015         \$10,723

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

*- Unknown*

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### ***2014- 2015 Executive Board***

The 2014-2015 Executive Board was elected prior to the Annual SOT meeting in 2014. Please consider contacting any of them directly if you have any thoughts regarding how the membership can best be served.



**Saber Hussain,  
President**



**Jamie Bonner,  
Vice President**



**Robert Tanguay,  
VP-Elect**



**Ed Reverdy,  
Secretary/Treasurer**



**Alison Elder,  
Past  
President**



**Andrij Holian,  
Councilor**



**Jared Brown,  
Councilor**



**Katherine Dunnick  
Vice Student  
Representative**



**Mary Popovech  
Student  
Representative**



**Matthew Grogg  
Postdoctoral  
Representative**



## 2014 Awardees List

### Graduate Student Awards:



**1<sup>st</sup> place** – Valerie Minarchick, West Virginia University. Prof: TR Nurkiewicz

**2<sup>nd</sup> place**– Forrest Jessop, University of Montana. Prof: Andrij Holian

**3<sup>rd</sup> place** - Katherine Dunnick, School of Pharmacy - West Virginia University, Prof: S. S. Leonard

### Postdoctoral Student Awards:



**1<sup>st</sup> place** – Dr. Salik Hussain, NEHS, Prof: S. Garantziotis

**2<sup>nd</sup> place** – Dr. Amy Wang- EPA, Prof: K Houck

**3<sup>rd</sup> place** – Dr. Phoebe Stapleton, West Virginia University. Prof: TR Nurkiewicz

### Best Publication Award:



Dr. Brian C. Sayers,  
Role of Cyclooxygenase-2 in Exacerbation of Allergen-Induced Airway Remodeling by Multiwalled Carbon Nanotubes. American Journal of Respiratory Cellular & Molecular Biology, 2012 Vol 49, Iss. 4, pp 525–535

### Special Recognition Award: for Outstanding Contributions to the Field of Nanotoxicology-

**Prof. Günter Oberdörster, University of Rochester**

