

NAME OF SPECIALTY SECTION Neurotoxicology

ANNUAL REPORT: 2016-2017

May 1, 2016 to April 30, 2017

I. Officers/Committees:

<u>Officers</u>	<u>2016-2017</u>	<u>Current: 2017-2018</u>
President:	Abby A Li	Mary E Gilbert
Vice President:	Mary E Gilbert	Michelle L Block
Vice President-Elect:	Michelle L Block	Lucio Costa
Secretary/Treasurer:	Ronald B Tjalkens	Ronald B Tjalkens
Past President	William K Boyes	Abby Li
Councilors:	Mamta V Behl	Vanessa Fitsanakis
	Helen J K Sable	Helen J K Sable
PDA Representative:	Marissa Sobolewski	Marissa Sobolewski
GSLC Representative:	Megan Elizabeth Culbreth	David Edmondsen

Committees:

Distinguished Neurotoxicologist Award Committee: William Boyes (Chair), Michelle Block, Aaron Bowman, Marion Ehrich, Steven Lasley.

Conference Award Committee: Michelle Block (Chair), Abby Li, William Boyes, Helen Sable

Trainee Poster Award Committee: William Boyes (Chair), Helen Sable and 40 NTSS Members as Judges

Nomination Committee: Aaron Bowman (Chair)

II. Activities:

2017 SOT Annual Meeting Reception was held in Baltimore, Maryland on Tuesday, March 14, 2017.

Approximately 250 people were in attendance.

Dr. Abby Li called the meeting to order at 7:00 pm on March 14.

Business Meeting Speaker: Dr. Deborah Cory-Slechta, University of Rochester, Distinguished Neurotoxicologist Awardee, 2017.

Meeting Minutes: see powerpoint slides, Attachment I

Awards: Conference Travel Award Recipients:

1. Pallavi Pilaka, Virginia Commonwealth University, Undergraduate Awardee
2. Shelbie Burchfield, Northeast Ohio Medical University, Graduate Student Awardee
3. Gelareh Alam, Northeast Ohio Medical University, Post-doctoral Awardee

Trainee Poster Presentation Award Recipients:

PostDoctoral Trainees

- 1st place poster – Kimberley Keil, UC Davis, Advisor Pamela Lein
2nd place poster – Katherine O’Shaughnessy, ORISE/US EPA, Advisor Mary Gilbert
3rd place poster – Suren Bandara, UC Davis, Advisor Pamela Lein

Graduate Student Trainees

- 1st place poster – Monica Langley, Iowa State U, Advisor Anu Kanthasamy
2nd place poster – Jennifer Panlilio, Penn State University, Advisor Alura/Hahn
3rd place poster – Diana You, NE Ohio Medical Centre, Advisor Aleksunes/Richardson

SOT Recognition of Outstanding NTSS Members:

Jason Richardson, Ph.D., DABT, ATS received the **2017 SOT Achievement Award** for his significant contribution to toxicology. Dr. Richardson is Professor of Pharmaceutical Sciences and Acting Associate Dean for Research College of Pharmacy at Northeast Ohio Medical University.

William Boyes, Ph.D. was selected to receive the SOT 2017 **Ocular Toxicology Specialty Section Career Achievement Award**. Dr. Boyes is an Environmental Health Scientist at the US Environmental Protection Agency.

Stephen Gilbert, Ph.D., DABT, was selected to be a **Global Senior Scholar Exchange Program (GSSEP) Host** for SOT. Dr. Gilbert is the Director and Founder of the Institute of Neurotoxicology and Neurological Disorders.

Megan Culbreth, Ph.D. candidate from Dr. Michael Aschner’s lab at Albert Einstein College of Medicine was selected to receive the **Outstanding Graduate Student Leadership Committee Award**

2017 SOT Annual Meeting Courses/Sessions: NTSS Endorsed sessions presented in 2017 included 2 Continuing Education Courses; 2 Symposia; 4 Workshops; 1 Roundtable

Endowment Fund Details: Three Conference Travel Awards funded through the Endowment Fund. Balance as of March 2017 \$76,957

Newsletters: A fall newsletter was prepared and distributed to the membership in November, 2016.

Contributions to SOT website: 2017 Poster and Travel Awardee winners were added to the NTSS website

Other Specialty Section 2016-2017 Activities:

1. NTSS reviewed and endorsed 9 proposals for Continuing Education Courses, Symposia, Workshops, and Round Tables. Nine of these were accepted by Scientific Programming Committee and presented at the meeting this year.
2. **New Battelle Laboratory support for poster award established this year allowing** NTSS to substantially increase the award amounts for the NTSS poster competition. Special thanks to Battelle scientists: Kale Vijay, Satheesh Anand, Amy Zmarowski
3. Nineteen graduate student and 13 postdoctoral student extended abstracts and poster presentations were evaluated.



Neurotoxicology Specialty Section (NTSS)

**Annual Reception
Welcome
March 15, 2017**

Quick Announcements of Other Neurotoxicology Meetings of Interest

Ed Levin: International Neurotoxicology Meeting
Others?

SOT Symposia, Workshops, Roundtable and Continuing Education Sessions

- THANK YOU TO ALL WHO SUBMITTED PROPOSALS!
- 2017: 2 Symposia, 4 Workshops, 1 Roundtable, 2 CE Courses
- Planning ahead for 2018 needs to happen now!
- One of NTSS's most important function
- Promotes neurotoxicology-relevant content at SOT
- Generated by members of NTSS

SOT Symposia, Workshops, Roundtable and Continuing Education Sessions

- THANK YOU TO ALL WHO SUBMITTED PROPOSALS!
- 2017: 2 Symposia, 4 Workshops, 1 Roundtable, 2 CE Courses
- **Planning ahead for 2018 needs to happen now!**
- One of NTSS's most important function
- Promotes neurotoxicology-relevant content at SOT
- Generated by members of NTSS

NTSS and SPC Proposal Process

**NTSS Pre-review deadline:
April 15th—earlier the better**

**Contact Presidents of other relevant specialty
section for their pre-review deadline**

**SOT Deadline:
May 15, 2017 11:59 pm ET**

DOs and DON'TS for SOT Session Proposals: THE DOs

1. Review the SOT website

http://www.toxicology.org/ms/SciSess_proposal.asp

2. Submit draft proposals directly to up to three SS/SIG(s) that are potential endorsers for their review/feedback prior to formal submission to SOT.
3. Clearly state in the overall abstract the session objectives and how the different speakers contribute to those objectives.
4. Give your speakers guidance on how to write well-developed abstract so that a scientist not in your field can understand the significance and relationship to the overall topic.
5. If you submitted last year and did not make it, try again!

DOs and DON'TS for SOT Session Proposals: THE DOs

1. Review the SOT website
http://www.toxicology.org/ms/SciSess_proposal.asp
2. Submit draft proposals directly to up to three SS/SIG(s) that are potential endorsers for their review/feedback prior to formal submission to SOT.
3. Clearly state in the overall abstract the session objectives and how the different speakers contribute to those objectives.
4. Give your speakers guidance on how to write well-developed abstract so that a scientist not in your field can understand the significance and relationship to the overall topic.
5. If you submitted last year and did not make it, try again!

DOs and DON'TS for SOT Session Proposals: THE DOs

1. Review the SOT website
http://www.toxicology.org/ms/SciSess_proposal.asp
2. Submit draft proposals directly to up to three SS/SIG(s) that are potential endorsers for their review/feedback prior to formal submission to SOT.
3. Clearly state in the overall abstract the session objectives and how the different speakers contribute to those objectives.
4. Give your speakers guidance on how to write well-developed abstract so that a scientist not in your field can understand the significance and relationship to the overall topic.
5. If you submitted last year and did not make it, try again!

DOs and DON'TS for SOT Session Proposals: THE DOs

1. Review the SOT website
http://www.toxicology.org/ms/SciSess_proposal.asp
2. Submit draft proposals directly to up to three SS/SIG(s) that are potential endorsers for their review/feedback prior to formal submission to SOT.
3. Clearly state in the overall abstract the session objectives and how the different speakers contribute to those objectives.
4. Give your speakers guidance on how to write well-developed abstract so that a scientist not in your field can understand the significance and relationship to the overall topic.
5. If you submitted last year and did not make it, try again!

DOs and DON'TS for SOT Session Proposals: THE DOs

1. Review the SOT website
http://www.toxicology.org/ms/SciSess_proposal.asp
2. Submit draft proposals directly to up to three SS/SIG(s) that are potential endorsers for their review/feedback prior to formal submission to SOT.
3. Clearly state in the overall abstract the session objectives and how the different speakers contribute to those objectives.
4. Give your speakers guidance on how to write well-developed abstract so that a scientist not in your field can understand the significance and relationship to the overall topic.
5. If you submitted last year and did not make it, try again!

DOs and DON'TS for SOT Session Proposals: The DON'TS

1. Submit a proposal with only general topics for speakers, no proposed speakers, no description of what each speaker will cover, and/or 1–3 general sentences about the topic.
2. Submit a proposal with speakers mostly from one institution, job sector, etc. so that there is no diversity of perspective.
3. Pick a topic that was presented in 2015 or 2016.
4. Include too many speakers (>5) or too many speakers who are not members of SOT (>2 or 3 depending on type of session).

DOs and DON'TS for SOT Session Proposals: The DON'TS

1. Submit a proposal with only general topics for speakers, no proposed speakers, no description of what each speaker will cover, and/or 1–3 general sentences about the topic.
2. Submit a proposal with speakers mostly from one institution, job sector, etc. so that there is no diversity of perspective.
3. Pick a topic that was presented in 2015 or 2016.
4. Include too many speakers (>5) or too many speakers who are not members of SOT (>2 or 3 depending on type of session).

DOs and DON'TS for SOT Session Proposals: The DON'TS

1. Submit a proposal with only general topics for speakers, no proposed speakers, no description of what each speaker will cover, and/or 1–3 general sentences about the topic.
2. Submit a proposal with speakers mostly from one institution, job sector, etc. so that there is no diversity of perspective.
3. Pick a topic that was presented in 2015 or 2016.
4. Include too many speakers (>5) or too many speakers who are not members of SOT (>2 or 3 depending on type of session).

DOs and DON'TS for SOT Session Proposals: The DON'TS

1. Submit a proposal with only general topics for speakers, no proposed speakers, no description of what each speaker will cover, and/or 1–3 general sentences about the topic.
2. Submit a proposal with speakers mostly from one institution, job sector, etc. so that there is no diversity of perspective.
3. Pick a topic that was presented in 2015 or 2016.
4. Include too many speakers (>5) or too many speakers who are not members of SOT (>2 or 3 depending on type of session).

**Please contact NTSS
Officers if you have any
questions about how to
develop proposals**

2016–2017 NTSS Officers



President
Abby Li



Vice-President
Mary Gilbert



Vice-President Elect
Michelle Block



Secretary/Treasurer
Ron Tjalkens



Past-President
Will Boyes



Past-Past President
Aaron Bowman



Councilor
Mamta Behl



Councilor
Helen Sable



Post-Doctoral Representative
Marissa Sobolewski



Graduate Student Representative
Megan Culbreth

Thank you Outgoing Officers

- **Megan Culbreth:** Graduate Student Rep
 - Winner of SOT 2017 Outstanding Graduate Student Leadership Committee Award
- **Marissa Sobolewski:** Post-doc Rep (re-elected)
- **Mamta Behl:** Councilor
- **Abby Li:** President
- **Special thanks to Aaron Bowman:** Past/Past President

New Officers



Vice President Elect
Lucio Costa



Councilor
Vanessa Fitsanakis



Graduate Student Rep
David Edmondson

General Fund

- **Treasurer:** Ron Tjalkens
- **Balance 12/2016:** \$14,652.00
- **Supported by NTSS member fees:** PLEASE JOIN
- **NEW Battelle Laboratory support for poster award**
 - Allows NTSS to substantially increase the award amounts for the NTSS poster competition.
 - Looking forward to continued partnership with Battelle
 - *Thank you to Battelle scientists: Kale Vijay, Satheesh Anand, Amy Zmarowski*
- **Estimated reserve after SOT 2017:** \$1800.00

General Fund

- Treasurer: Ron Tjalkens
- Balance 12/2016: \$14,652.00
- Supported by NTSS member fees: PLEASE JOIN
- **NEW Battelle Laboratory support for poster award**
 - Allows NTSS to substantially increase the award amounts for the NTSS poster competition.
 - Looking forward to continued partnership with Battelle
 - *Thank you to Battelle scientists: Kale Vijay, Satheesh Anand, Amy Zmarowski*
- **Estimated reserve after SOT 2017: \$1800.00**

Toshio Narahashi Neurotoxicology Fellowship Endowment Fund

- **Steward:** Pam Lein
- **As of 2017 SOT Endowment Fund:** \$76,957
- **3 Travel Awards:** \$800
- **Deadline for 2018 SOT meeting:** November 7, 2017

**Many thanks to NTSS Member and
Institutional Contributions**

Toshio Narahashi Neurotoxicology Fellowship Endowment Fund

- Help defray cost of travel expenses to the annual Society of Toxicology national meeting
- Eligibility
 - Undergraduates, post-baccalaureates, graduate students, and post-doctoral fellows
- Trainees must attend the annual meeting
- 2016 review panel: Michelle Block (chair), Abby Li, Will Boyes, Helen Sable

Toshio Narahashi Endowment Trainee Conference Award



Pallavi Pilaka
Undergraduate
Virginia Commonwealth
University



Shelbie Burchfield
Graduate
Northeast Ohio Medical
University



Gelareh Alam
Post-doctoral Fellow
Northeast Ohio Medical
University

Distinguished Neurotoxicology Award

- Recognizes NTSS members who have made important high-impact scientific, regulatory, or service contributions to our field

Distinguished Neurotoxicology Award

- Recognizes NTSS members who have made important high-impact scientific, regulatory, or service contributions to our field
- This award has been dormant since 2008

Distinguished Neurotoxicology Award

- Recognizes NTSS members who have made important high-impact scientific, regulatory, or service contributions to our field
- This award has been dormant since 2008
- This year, we established clear criteria, defined procedures, encouraged nominations, and convened a committee to evaluate applications. Details of this process can be found on the NTSS website(<https://www.toxicology.org/groups/ss/NTSS/awards.asp>).

Distinguished Neurotoxicology Award

- Recognizes NTSS members who have made important high-impact scientific, regulatory, or service contributions to our field
- This award has been dormant since 2008
- This year, we established clear criteria, defined procedures, encouraged nominations, and convened a committee to evaluate applications. Details of this process can be found on the NTSS website(<https://www.toxicology.org/groups/ss/NTSS/awards.asp>).
- 2016–17 review panel: Drs. William Boyes (chair), Michelle Block, Aaron Bowman, Steven Lasley, and Marion Ehrich carefully evaluated three nominations.

Deborah Cory-Schlechta **University of Rochester**

**2017 Distinguished
Neurotoxicologist Award**

2017 SOT Recognition of NTSS Members



Jason Richardson, Ph.D., DABT, ATS received the **2017 SOT Achievement Award** for his significant contribution to toxicology. Dr. Richardson is Professor of Pharmaceutical Sciences and Acting Associate Dean for Research College of Pharmacy at Northeast Ohio Medical University.



William Boyes, Ph.D. was selected to receive the **SOT 2017 Ocular Toxicology Specialty Section Career Achievement Award**. Dr. Boyes is an Environmental Health Scientist at the US Environmental Protection Agency.

2017 SOT Recognition of NTSS Members



Stephen Gilbert, Ph.D., DABT, was selected to be a **Global Senior Scholar Exchange Program (GSSEP) Host** for SOT. Dr. Gilbert is the Director and Founder of the Institute of Neurotoxicology and Neurological Disorders.



Megan Culbreth, Ph.D. candidate from Mikki Aschner's lab at Albert Einstein College of Medicine was selected to receive the **Outstanding Graduate Student Leadership Committee Award**

2017 NTSS Poster Competition

Chairs: Will Boyes and Helen Sable

Graduate student posters: 19

Postdoctoral posters: 13

Thank You Judges!

Joshua Allen

Aaron Bowman

Will Boyes

Jason Cannon

Rodrigo Franco Cruz

Chris Curran

T.V. Damodaran

Derek Drechsel

Ayse Basak Engin

Paul Eubig

Nick Filipov

Vanessa A. Fitsanakis

Tim Flanigan

Ellen Fritsche

Mary Beth Genter

Mary Gilbert

Joshua Harrill

Jean Harry

Katja Hempel

David Herr

Helena Hogberg

Muhammad Hossain

Mary Jeanne Kallman

Arthi Kanthasamy

Prasada Kodavanti

Steve Lasley

Ed Levin

Abby Li

Chris Newland

Andrew Ottens

Bhaja K. Padhi

Carey Pope

Gale Richardson

Kristen R Ryan

Helen Sable

Susan Schantz

Tim Shafer

Christoph van Thriel

Remco Westerink

Yukun Yuan

Winners of 2016 NTSS Poster Competition

Graduate Students

- Third Place:

Diana You

Advisors (Aleksunes & Richardson)

Winners of 2016 NTSS Poster Competition

Graduate Students

- Second Place:

Panlilio, Jennifer

Advisors: Alura/Hahn

Winners of 2016 NTSS Poster Competition Graduate Students

- First Place, Battelle Best Student Poster Award

Monica Langley

Advisor: Kanthasamy

Winners of 2016 NTSS Poster Competition

Postdoctoral Students

- Third Place:

Suren Bandara

Advisor: Lein

Winners of 2016 NTSS Poster Competition

Postdoctoral Students

- Second Place:

Katie O'Shaughnessey

Advisor: Gilbert

Winners of 2016 NTSS Poster Competition

Postdoctoral Students

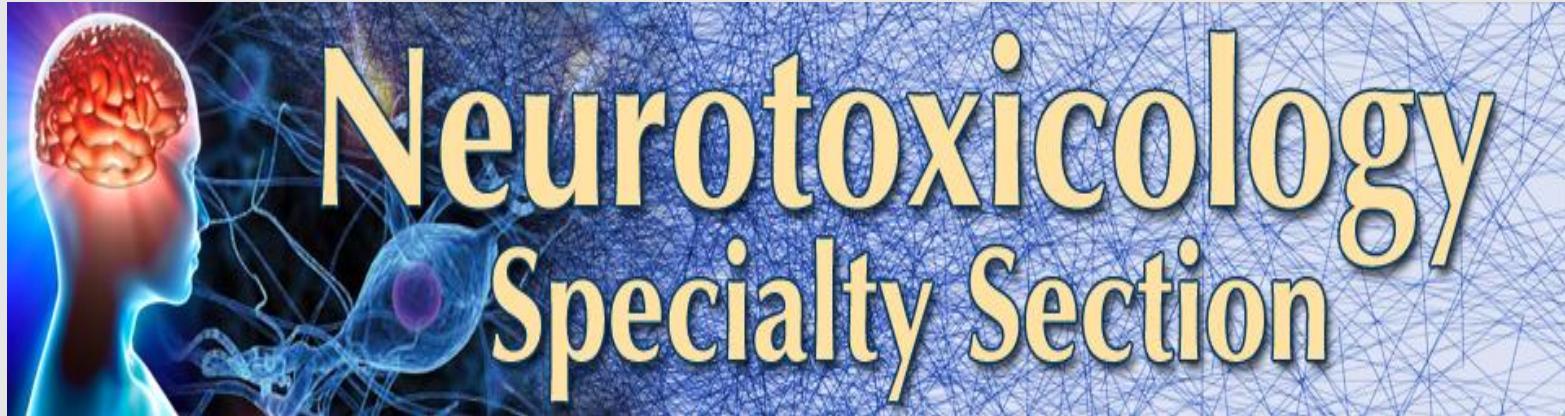
- First Place:

Kimberly Keil

Advisor: Lein



THANK YOU
See you in San Antonio, Texas in 2018



Annual Reception

Welcome

March 16, 2016

2015 – 2016 NTSS Officers



President:
Will Boyes



Secretary/Treasurer:
Ron Tjalkens



Councilor:
Mamta Behl



Vice-President:
Abby Li



Past President:
Aaron Bowman



Post-doctoral
representative:
Kiran Dhakal



Vice-President-Elect:
Mary Gilbert



Councilor:
Michelle Block



Graduate student
representative:
Megan Culbreth

New Officers

- Michelle L. Block– VP Elect
- Ronald B. Tjalkens – Secretary/Treasurer
- Helen J. K. Sable – Councilor
- Marissa Sobolewski – Postdoctoral Representative
- Megan Culbreth - Graduate Student Rep

Thanks to Anu Kanthasamy

General Fund

- Treasurer – Ron Tjalkens
- Balance as of 12/2015: \$14,863
- Supported by NTSS member fees

Membership 356

Toshio Narahashi Neurotoxicology Fellowship Endowment Fund

- Steward: Pam Lein
- New SOT Endowment target: \$50,000
- As of SOT 2016 numbers we had raised: \$67,750
- SOT will match contributions up to \$100,000
- **Thanks to NTSS Member donors!!!**
- **Institutional Contributions:**

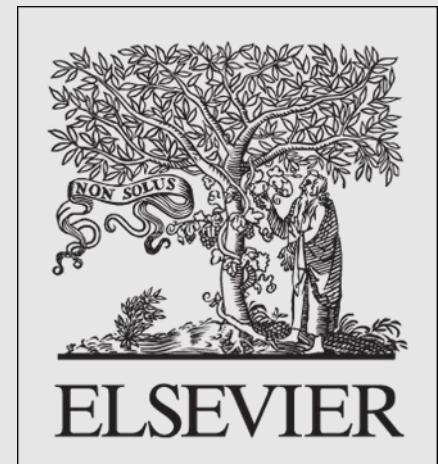
NeuroToxicology

INA

Oklahoma State University

Corporate Sponsors

Toshio Narahashi Neurotoxicology Endowment



NTSS Toshio Narahashi Trainee Conference Award

- The goal is to support the attendance of meritorious trainees in Neurotoxicology to the SOT meeting by relieving potential financial barriers for travel.
- Scientific merit, and commitment from the trainee's mentor to cover the balance of travel expenses not covered by the award will be key criteria used in the decision process.
- Attendance at the meeting is mandatory upon acceptance of the award

Three Awardees selected this year one from each 'level of career' but this may remain fluid dependent upon the constitution of the applications each year

Deadline for submission will be advanced for 2017 meeting to be just after abstract submission deadline in October

Goal is to have awardees selected by early December to meet SOT deadlines for delivery of award in advance of the meeting to allow trainees flexibility in travel plans.

Award is handled by VP-Elect and Councilors.

Check Spring Newsletter and Award Site in early October for deadline details.

NTSS Toshio Narahashi Conference Awardees 2016

Jasmine Brown – US EPA

Further Evaluation of Developmental Neurotoxicity (DNT) Hazard Screening using Neural Networks from Rat Cortical Neurons on Multi-well Microelectrode Arrays

Mentor: Tim Shafer

Marshall Edwards - U Texas, San Antonio

Early Juvenile Exposure Of Mice To High-dose Acetaminophen Confers Elevated Serum Eotaxin Levels And Sociability Impairments In Adulthood

Mentor: Georgiana Gould

Dana Laurenstein, NYU School of Medicine

E-cigarette Exposure Induces Neuro-alterations In Mice Exposed During Early Life

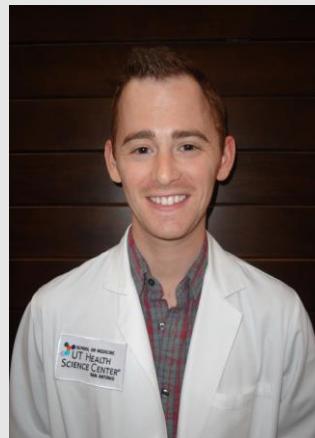
Mentor: Judith Zelikoff

New Neurotoxicology Specialty Section Toshio Narahashi Trainee Conference Award

Congratulations to the 2016 winners!!



Jasmine Brown
U.S. EPA



Marshall Edwards
UT Health Science Center
at San Antonio

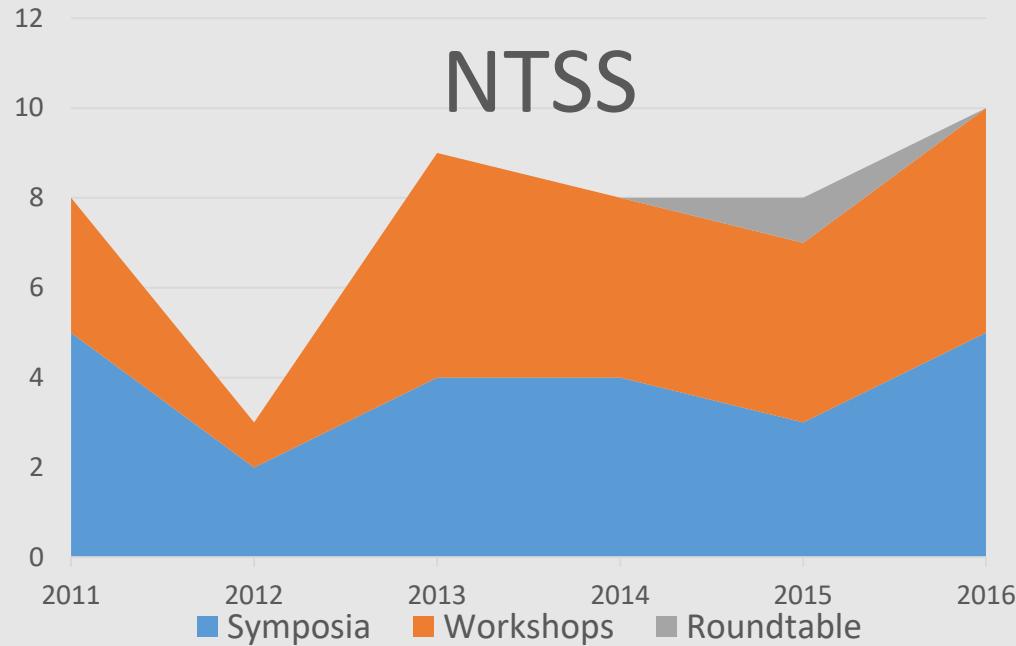


Dana Lauterstein
NYU School of Medicine

Symposia, Workshops, Continuing Education and Roundtable Sessions

- One of the NTSS most important functions
- Provides neurotoxicology content that we come to the meetings for.
- Generated by members of the NTSS
- Competitively awarded by the SOT Scientific Program Committee

2016 NTSS had highest number of total SOT sessions (10) since records began in 2011



Symposia, Workshop and CE Course proposal for 2017 meeting

http://toxicology.org/main/sessionProposalSubmit_Instr.asp

SOT Deadline: **April 30th**, 11:59pm ET

NTSS Pre-review deadline: **April 12th**

1. Submit proposal drafts to Abby Li (abbyli@exponent.com) if you would like optional pre-review and comments.
2. Pre-proposals will be reviewed by Abby Li, Will Boyes, Mary Gilbert, Aaron Bowman, and Michelle Block.
3. Summary comments returned to submitter within ~ 1 week of submission as time permits.
4. Submit final proposals to SOT.
5. SOT send to NTSS for review and ranking.

Abby Li's Don't and Do's for SOT Session Proposals

Don'ts

1. Submit a proposal with only general topics for speakers, no proposed speakers, no description of what each speaker will cover, and/or 1–3 general sentences about the topic.
2. Submit a proposal with speakers mostly from one institution, job sector, etc. so that there is no diversity of perspective.
3. Pick a topic that was presented in 2014 or 2015.
4. Include too many speakers (>5) or too many speakers who are not members of SOT (>2 or 3 depending on type of session).

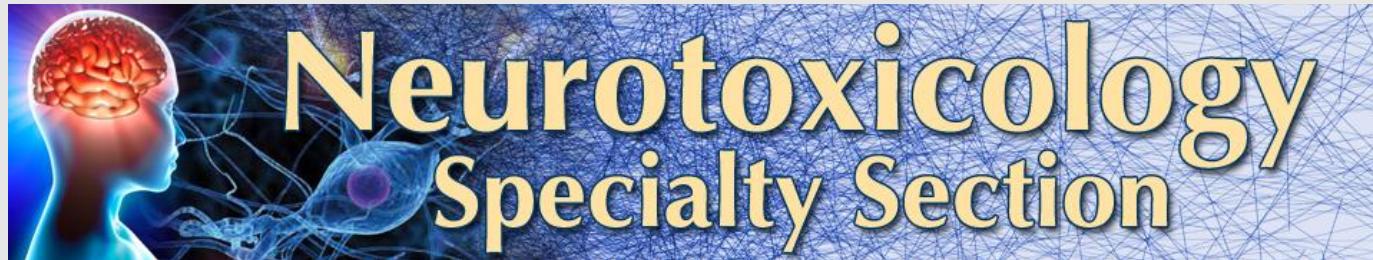
DO's

1. Review the SOT website http://www.toxicology.org/ms/SciSess_proposal.asp
2. Submit draft proposals directly to the SS/SIG(s) that are potential endorsers for their review/feedback prior to formal submission to SOT.
3. Clearly state in the overall abstract the session objectives and how the different speakers contribute to those objectives.
4. Give your speakers guidance on how to write well-developed abstract so that a scientist not in your field can understand the significance and relationship to the overall topic.

NTSS Webpage and Facebook

Kiran Dhakal – NTSS Postdoc Rep

Megan Culbreth – Grad. Student Rep



Home
Officers
Bylaws
Membership/Join
Awards
News & Events
Resources
Reports
President's Messages
Photo Gallery
Contact Us



Welcome to NTSS

Neurotoxicology Specialty Section of the Society of Toxicology

NTSS members share interests in the adverse effects of chemical, biologic and physical agents on the structure and function of the nervous system:

- Learn [about NTSS](#), its mission, current officers, member benefits and more
- [Join NTSS](#) with membership in SOT—the Society of Toxicology
- Get information about [events](#) including SOT's annual meeting and meetings of interest to NTSS
- Read [news](#) in the field of neurotoxicology
- NTSS sponsors [awards](#)—find out how to apply and who has won
- Check these [resources](#) about neurotoxicology, share your knowledge

Announcements

[Postdoctoral Funding Opportunity—US EPA](#)

[Postdoctoral Opening](#)
[University of Wisconsin-Madison](#)
[Molecular Neurotoxicology](#)

[Dr. Toshio Narahashi](#)
[Obituary](#)

[SOT Announces Pilot Program for Undergraduate Interns](#)

[NTSS Awards Info and Deadlines](#)

[Newly Renamed Toshio Narahashi Fellowship](#)

Open Announcements

- Ed Levin – INA / NTX
- Joan Cranmer - Manganese Meeting
- Others?

Thank you Outgoing Officers

- Michelle Block (Councilor)
- Ronald Tjalkens (Secretary/Treasurer)
- Kiran Dhakal – Postdoc Rep
- Megan Culbreth – Grad. Student Rep (re-elected)
- Will Boyes – President

2016 NTTS Poster Competition

Chair: Aaron Bowman

Graduate student posters: 22

Postdoctoral posters: 10

Thank You 35 Judges! (Phase 1 & Phase 2)

Abby Li	Jason Cannon	Michelle Block
Anumantha Kanthasamy	Jason Richardson	Mohammad Houssain
Arthi Kanthasamy	Jean Harry	Nick Filipov
Bhaja Padhi	JiaRen Liu	Pam Lein
Carey Pope	Jill Harvilchuck	Rodrigo Franco Cruz
Chris Curran	Josh Allen	Steve Lashley
Christina de Zafra	Katja Hempel	Sue Schantz
Derek Drechsel	Krishnan Sriram	TV Damondaran
Donna Lee	Kristen Ryan	Vanessa Fitsanakis
Hassan El-Fawal	Mamta Behl	Will Boyes
Helena Hogberg	Mary Genter	
	Mary Gilbert	

BOLD = judged both phases

Graduate students had a minimum of 5 judges scored across both phases
Postdoctoral fellows had a minimum of 4 judges scored across both phases

Winners of 2016 Toshio Narahashi Poster Competition

Graduate Students – 3rd Place (\$100)

- **Shivani Ghaisas, Iowa State University**
- Mentor: Anumantha Kanthasamy

Chronic exposure to manganese causes selective changes in the enteric nervous system and gut physiology leading to altered nutrient metabolism and intestinal motility

“Shivani was able to demonstrate that continued exposure to Mn causes selective changes in the enteric nervous system and gut physiology leading to altered nutrient metabolism and intestinal motility.... As the primary author, Shivani has made substantial contributions, from the conceptualization and experiment design stages to the execution, analysis and interpretation of the research reported.”

Winners of 2016 Toshio Narahashi Poster Competition

Graduate Students – 2nd Place (\$200)

- **Miles Bryan, Vanderbilt University**

- Mentor: Aaron Bowman

**A potential role for phosphatidyl-inositol-3-kinase (PI3K)
in regulating manganese transport through an
autophagy-mediated mechanism**

“Miles has made great progress on his project to understand the connections between major signaling pathways altered by manganese exposure and regulation of manganese cellular homeostasis under toxic Mn exposure conditions as well as Mn insufficiency conditions associated with the pathophysiology of Huntington’s Disease (HD).... He has led the work on this project, under my guidance, and has overseen all experiments and analysis presented.”

Winners of 2016 Toshio Narahashi Poster Competition

Graduate Students – 1st Place (\$300)

- **Katriana Popichak, Colorado State University, Fort Collins**
- Mentor: Ronald Tjalkens

Activation Of The Nuclear Receptor Nur77 By A Novel Diindolylmethane Analog Suppresses Inflammatory Gene Expression In Primary Astrocytes

“Katriana is extremely dedicated and resourceful in developing new methodologies and invested a great deal of effort to carefully validate methods for DNA and RNA analysis in primary cultured glial cells and neurons... She is meticulous, thoughtful, and very knowledgeable and was consistently the ‘go to’ person for the junior graduate students and undergraduates in the lab whenever they had theoretical or practical questions regarding their projects.”

Winners of 2016 Toshio Narahashi Poster Competition Postdoctoral– 3rd Place (\$100)

- **Kim Keil, Univ. California Davis**
- Mentor: Pam Lein

DNA Methylation As A Mediator Of 2,2',3,5',6-Hexachlorobiphenyl (PCB 95) Induced Dendritic Arborization

“She has not only mastered a large and diverse number of new techniques since joining my laboratory, including neurobehavioral analyses in rodent models, primary neuronal cell culture, advanced microscopy techniques, including STED super resolution microscopy and high content imaging, morphometric analyses of dendritic arborization and sophisticated statistical analyses...These innovative approaches have yielded some startling data that are driving research in the lab in new directions.”

Winners of 2016 Toshio Narahashi Poster Competition

Postdoctoral – 2nd Place (\$200)

- **Marissa Sobolewski, Univ. Rochester**
- Mentor: Deborah Cory-Slechta

Developmental Mismatch between Fetal and Adult Steroid Concentrations: Enhanced Hormonal Dysregulation in Adult Mice Maternal Exposed to a Mixture of Low Dose Endocrine Disrupting Chemicals

“She is extremely bright and a critical thinker; her ability to hone in on important questions and to appraise the literature is remarkable...The project that she is reporting on in this poster is entirely her own and its significance, i.e., the enhanced neurotoxicity of mixtures of endocrine disrupters, clearly breaks new ground.”

Winners of 2016 Toshio Narahashi Poster Competition Postdoctoral – 1st Place (\$300)

- **Briana Miranda, Univ. Pittsburgh**
- Mentors: Edward Burton and J. Timothy Greenamyre

Astrocyte specific expression of DJ-1 attenuates rotenone-induced neurotoxicity; a gene therapy approach

*“Dr. De Miranda has carried out a large *in vivo* neuroprotection study along with *in vitro* experiments to elucidate the mechanisms of astrocytic DJ-1 mediated neuroprotection...he data she will present in her poster for the Neurotoxicology Specialty Section are exciting, since they suggest a novel cell non-autonomous role of astrocytic DJ1 expression in neuroprotection and a possible therapeutic strategy for Parkinson’s disease.”*

Thank You!