In recognition of distinguished toxicologists and students, SOT presents Honorary Membership and Awards each year. In addition to receiving a plaque, featured recipients are honored at a special Awards Ceremony at the SOT Annual Meeting and their names are listed in SOT publications. The deadline for 2015 Honorary Membership and Award nominations is October 9, 2014.

SOT Council reviews nominations for Honorary Membership and the Awards Committee reviews applications for SOT Awards and most Sponsored Awards. Awards Committee members are not eligible to receive any awards conferred by the Committee while serving on the Committee and for one subsequent year.

The Best Paper Awards in Toxicological Sciences are reviewed by the Board of Publications. The Education Committee selects the recipients of the Pfizer SOT Undergraduate Travel Award and the Committee on Diversity Initiatives selects the recipients of other undergraduate student awards. The Postdoctoral Assembly selects those receiving the Best Postdoctoral Publication Awards and the Graduate Student Leadership Committee selects the recipients of the Outstanding Leadership Award. Nominees for the Congressional Science Leadership Award are reviewed and recommended by the Communications Committee and approved by Council.

Nominations for many awards must be submitted by a sponsor and a seconder who are Full members of SOT using the online Award Nomination form. The supporting documentation must indicate the candidate's achievements in toxicology and is critical in the review of each application. See the award description for the additional requirements and details. There are specific applications for Fellowships and Graduate Student Travel Support.

Other graduate student and postdoctoral fellow awards are available through Regional Chapters, Special Interest Groups, and Specialty Sections (many of these awards are funded through the various Named Endowment Funds). A student or postdoctoral scholar may apply for any award for which he or she is eligible and may apply for and receive multiple awards, whether administered by SOT, Regional Chapters, Special Interest Groups, or Specialty Sections. Policies related to travel support are determined by the sponsor (SOT, Regional Chapter, Special Interest Group, or Specialty Section).

**A Student may only receive one SOT national travel award.**

Full descriptions of all current awards, awards no longer being offered, application procedures, and names of past recipients can be found on the “Awards and Fellowships” section of the SOT website at [www.toxicology.org/awards](http://www.toxicology.org/awards).

### SOT HONOR DESCRIPTIONS

#### HONORARY MEMBERSHIP

The Society of Toxicology recognizes nonmembers who embody outstanding and sustained achievements in the field of toxicology with Honorary Membership. Candidates are nominated by two Full or Associate members of the Society. Seconding letters and information regarding career achievements in toxicology should accompany the nomination. A two-thirds vote of Council determines recipients, with not more than two Honorary Members elected during any one term of Council. Nominations should be sent to SOT Headquarters by October 9.

**Inductees**

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<td>R. Tecwyn Williams*</td>
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*Indicates an SOT Sponsored Award

[Deceased]
## SOT Awards Descriptions

### Achievement Award

The Achievement Award is presented to a member of the Society of Toxicology who has within 15 years since obtaining his/her highest earned degree (in the year of the SOT Annual Meeting) made significant contributions to toxicology. This award consists of a plaque and a cash stipend.

**Award Recipients**

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### Arnold J. Lehman Award

The Arnold J. Lehman Award is presented to recognize an individual who has made a major contribution to risk assessment and/or the regulation of chemical agents, including pharmaceuticals. The contribution may have resulted from the application of sound scientific principles to regulation and/or from research activities that have significantly influenced the regulatory process. The nominee may be employed in academia, government, or industry and must be an SOT member. This award consists of a plaque and a cash stipend.

**Award Recipients**

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</table>

*Indicates an SOT Sponsored Award

*Deceased
SOT HONORS, AWARD DESCRIPTIONS, AND HISTORY

BEST POSTDOCTORAL PUBLICATION AWARDS

The Best Postdoctoral Publication Awards recognize talented postdoctoral researchers who have recently published exceptional papers in the field of toxicology. Applications are reviewed by the Postdoctoral Assembly Executive Board and outside reviewers with appropriate scientific expertise. The research reported in the paper must have been conducted while the applicant was engaged in a postdoctoral research position. The applicant must be the first author on a peer-reviewed paper published on-line or in print, or in press, in the preceding 12-month period, terminating with the June issue of the preceding volume. Any member of the Society may submit one application for the award. The Board of Publications will select one application to be recognized with the award. Recipients were announced and prizes presented at the Annual Meeting.

Award Recipients

2007 .......... Nadine Dragin, Kristen Mitchell, Drobna Zuzana
2009 .......... Jeffrey W. Card, Kembra Howdeshell
2010 .......... Bret F. Bessac, Manabu Nukaya, Nicholas Radio
2011 .......... Dieldrich S. Bermudez, Joshua A. Harrill, Jordan Ned Smith
2012 .......... Maryse Lemaire, Xuefeng Ren, Nisha S. Sipes
2013 .......... Petra Haberzettl, Anne Loccisano, Yuanyuan Xu
2014 .......... Annie Lumen, Gul Mehnaz Mustafa, Phoebe E. Stapleton

BOARD OF PUBLICATIONS AWARD FOR THE BEST PAPER IN TOXICOCLOGICAL SCIENCES

The Board of Publications Award for the Best Paper in Toxicological Sciences is presented to the author(s) of the best paper published in this official SOT publication during a 12-month period, terminating with the June issue of the calendar year preceding the Annual Meeting at which the award is presented. The author(s) need not be a member of the Society of Toxicology. Submissions should include a one-page summary of the paper's contribution to the science of toxicology and a copy of the article for which the nomination is being made. Any member of the Society may submit one title for consideration. In addition, the titles of no more than six papers to be considered are submitted by the editor-in-chief of Toxicological Sciences. All papers submitted will be evaluated by the Board of Publications. This award consists of a plaque and a cash stipend. (This award was formerly known as the Frank R. Blood Award from 1974–1994.)

Best Paper in Toxicological Sciences

Award Recipients

2001 .......... J. Chen, Y. Li, J. A. Lavigne, M. A. Trush, J. D. Yager
2003 .......... S. Haddad, M. Beliveau, R. Tardif, K. Krishnan
2006 .......... H. Sawada, K. Takami, S. Ashai
2014 .......... Anja Schinwald, Fiona A. Murphy, Adriele Prina-Mello, Craig A. Poland, Fiona Byrne, Dania Movia, James R. Glass, Janet C. Dickerson, David A. Schultz, Chris E. Jeffree, William MacNee, and Ken Donaldson

Frank R. Blood Award Presented 1974–1994

Award Recipients

1974 .......... Y. Alarie
1975 .......... D. J. Ecobichon, G. J. Johnstone, O. Hutzinger
1976 .......... R. D. Brown
1977 .......... J. Dedinas, G. D. DiVincenzo, C. J. Kaplan
1980 .......... J. A. Last, P. F. Moore, O. G. Raabe, B. K. Tarkington
1981 .......... Y. Alarie, M. Brady, C. Dixon, M. Karol
1983 .......... H. D. Heck
1985 .......... N. Imura, M. Inokawa, K. Miura
**SOT HONORS, AWARD DESCRIPTIONS, AND HISTORY**

**1986**........C. C. Wilhite, M. I. Dawson, K. J. Williams  
**1987**........J. Kao, F. K. Patterson, J. Hall  
**1988**........D. L Laskin, S. Ji, A. M. Pilaro  
**1989**........R. G. Cuddihy, W. C. Griffith, R. F. Henderson,  
J. L. Mauderly, R. O. McClellan, M. D. Snipes, R. K. Wolff  
**1990**........W. P. Beierschmitt, J. T. Brady, J. B. Bartolone,  
D. S. Wyand, E. A. Khairallah*, S. D. Cohen  
**1991**........J. B. Silksworth, D. Cutler, L. Antrim, D. Houston,  
C. Tumasonis, L. S. Kaminsky  
**1992**........D. A. Fox, S. D. Rubinstein, P. Hsu  
**1993**........T. Mably, R. W. Moore, R. W. Goy, R. E. Peterson  
**1994**........S. J. Borghoff, W. H. Lagarde  

**CONGRESSIONAL SCIENCE LEADERSHIP AWARD**

The Congressional Science Leadership Award provides recognition of a Congressional leader who demonstrates reliance upon sound scientific principles in either 1) public policy or decision-making relating to health and safety or 2) dedicated advancement of legislation for the protection of human, animal, and environmental health. This award consists of a plaque.

**Award Recipients**

- **2009**........Congressman David Wu (D-OR)  
- **2010**........Senator Johnny Isakson (R-GA)  
  - Congressman David Price (D-NC)  
- **2011**........Congresswoman Judy Biggert (R-IL)  
  - Senator Amy Klobuchar (D-MN)  
- **2012**........Representative Rush Holt (D-NJ)  
- **2013**........Congressman Dave Reichert (R-WA)  
- **2014**........Senator Tom Udall (D-NM)  
  - Congressman Fred Upton (R-MI)

**CONTRIBUTIONS TO PUBLIC AWARENESS OF THE IMPORTANCE OF ANIMALS IN TOXICOLOGY RESEARCH AWARD**

*Presented 2000–2006*

The Contributions to Public Awareness of the Importance of Animals in Toxicology Research Award was presented to an individual (or organization) in recognition of contributions made to the public understanding of the role and importance of experimental animals in toxicological science. This award may be for either a single seminal piece of work or a longer-term contribution to public understanding of the necessity of the use of animals in toxicological research to both ensure and enhance the quality of human and animal health and the environment.

**Award Recipients**

- **2000**........Allegheny-Erie Regional Chapter  
- **2001**........Massachusetts Society for Medical Research  
- **2002**........George Nethercutt  
- **2003**........Michael Derelanko  
- **2004**........North Carolina Association for Biomedical Research  
  - (NCABR), Americans for Medical Progress (AMP)  
- **2005**........Orrin G. Hatch, Foundation for Biomedical Research  
  - (FBR)  
- **2006**........Jayne Mackta

**DISTINGUISHED TOXICOLOGY SCHOLAR AWARD**

The Distinguished Toxicology Scholar Award is presented to a member of SOT who has made substantial and seminal scientific contributions to our understanding of the science of toxicology. Nominees should be active scientists involved in toxicological research. The prime consideration for this award is scientific accomplishments. This award consists of a plaque and a cash stipend. The recipient delivers the Distinguished Toxicology Scholar Award Lecture at the SOT Annual Meeting. (This award was presented in 2001 as the Scientific Achievement Award.)

**Award Recipients**

- **2001**........James E. Troska  
- **2003**........Henry C. Pitot  
- **2004**........Gerald N. Wogan  
- **2005**........Daniel Neber  
- **2006**........Sten G. Orenius  
- **2007**........Stephen H. Safe  
- **2008**........Toshio Narahashi*  
- **2009**........Lance R. Pohl  
- **2010**........Harishara M. Mehendale  
- **2011**........Oliver Hankinson  
- **2012**........Ernest Hodgson  
- **2013**........John J. Lemasters  
- **2014**........Richard E. Peterson

**EDUCATION AWARD**

The Education Award is presented to an individual who is distinguished by the teaching and training of toxicologists and who has made significant contributions to education in the broad field of toxicology. This award consists of a plaque and a cash stipend.

**Award Recipients**

- **1975**........Harold C. Hodge*  
- **1976**........Ted A. Loomis  
- **1977**........Robert B. Fornay*  
- **1979**........Sheldon D. Murphy*  
- **1980**........Herbert H. Comish*  
- **1981**........Frederick Sperling*  
- **1982**........Lloyd W. Hazleton*  
- **1983**........Julius M. Coon*  
- **1984**........Frank Guthrie, Ernest Hodgson  
- **1985**........William B. Buck  
- **1986**........Robert I. Krieger  
- **1987**........Gabriel L. Plia*  
- **1988**........John Autian
### SOT HONORS, AWARD DESCRIPTIONS, AND HISTORY

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</table>

### ENHANCEMENT OF ANIMAL WELFARE AWARD

The Enhancement of Animal Welfare Award is presented annually to a member of the Society in recognition of a contribution made to the advancement of toxicological science through the development and application of methods that replace, refine, or reduce the need for experimental animals. The achievement recognized may be either a seminal piece of work or a long-term contribution to toxicological science and animal welfare. This award consists of a plaque and a cash stipend.

**Award Recipients**
- 2000: Yves Alarie
- 2001: Alan Goldberg
- 2002: Gary Williams
- 2003: G. Frank Gerberick
- 2003: Ian Kimber
- 2005: Daniel Acosta
- 2006: William S. Stokes
- 2007: Thomas Hartung
- 2009: Sally Robinson
- 2010: Leonard M. Schectman
- 2013: Martin L. Stephens

### GLOBAL SENIOR SCHOLAR EXCHANGE PROGRAM

The Global Senior Scholar Exchange Program (GSSEP) funds two mid-career to Senior Scholar toxicologists from developing countries in Latin America, Africa, or Asia to attend the SOT Annual Meeting and spend up to four weeks with one or more hosts from established toxicology programs, academic, government, or industry organization(s) worldwide. The Host will in turn visit the Scholar’s institution. The program provides a cash stipend and travel support for each pair. The 2014 recipients can be found under the GSSEP section on page 345.

**Award Recipients**
- 2012: Jesus Olivero-Verbel (Hosts: Miroslav Styblo, NC University at Chapel Hill and Michael P. Waalkes, NIEHS) and Orish Ebere Orisakwe (Host: Judith T. Zelikoff, NYU School of Medicine)
- 2013: Sri Noegrohati (Hosts: Michael L. Dourson and Bernard K. Gadagbui, Toxicology Excellence for Risk Assessment) and Mohamed Mosaad Salama (Host: Mohamed Abou-Donia, Duke University Medical Center)
- 2014: Gonzalo J. Diaz (Host: Wilson Kiiza Rumbeiha, Iowa State University College of Veterinary Medicine), and Ebenezer O. Farombi (Host: James E. Klaunig, Indiana University

### GRADUATE STUDENT TRAVEL SUPPORT

Graduate Student Travel Support defrays expenses for doctoral students presenting platform talks or posters at the SOT Annual Meeting. The student must be an SOT member or pending member who has not previously received SOT Graduate Student Travel Support. Funding priority is based on seniority in graduate school. A full listing of recipients can be found under the Graduate Travel Support section on page 352.
LEADING EDGE IN BASIC SCIENCE AWARD

The Leading Edge in Basic Science Award is presented to a scientist who, based on his/her research, has made a recent (within the last 5 years), seminal basic scientific contribution to understanding fundamental mechanisms of toxicity. The recipient may be a member or nonmember, including toxicologists as well as other scientists who may not identify themselves with the discipline of toxicology but whose research findings are likely to have a pervasive impact on the field of toxicology. This award consists of a plaque and a cash stipend. The recipient delivers the Leading Edge in Basic Science Award Lecture at the SOT Annual Meeting.

Award Recipients
2009 ..........John Katzenellenbogen
2010 ..........Richard S. Paules
2011 ..........Masayuki Yamamoto
2012 ..........Myung-Haing Cho
2013 ..........Donald E. Ingber
2014 ..........Vishal S. Vaidya

MERIT AWARD

The Merit Award is presented to a member of the Society of Toxicology in recognition of distinguished contributions to toxicology throughout an entire career in areas such as research, teaching, regulatory activities, consulting, and service to the Society. This award consists of a plaque and a cash stipend. The recipient delivers the Merit Award Lecture at the SOT Annual Meeting.

Award Recipients
1967 ..........Arnold J. Lehman*
1968 ..........R. T. Williams*
1969 ..........Harold C. Hodge*
1970 ..........Don D. Irish
1971 ..........Kenneth P. DuBois*
1972 ..........O. Garth FitzHugh*
1973 ..........Herbert E. Stokinger*
1974 ..........William B. Deichmann*
1975 ..........Frederick Coulston*
1976 ..........Verald K. Rowe*
1977 ..........Harry W. Hays*
1978 ..........Julius M. Coon*
1979 ..........David W. Fassett*
1980 ..........Bernard L. Oser*
1981 ..........John H. Weisburger
1982 ..........Harold M. Peck*
1983 ..........Perry J. Gehring*
1984 ..........Tom S. Miya
1985 ..........Carrol S. Well*
1986 ..........Ted A. Loomis
1987 ..........Bo Holmstedt
1988 ..........Seymour L. Friess*

MINORITY UNDERGRADUATE STUDENT AND ADVISOR AWARDS

The Minority Undergraduate Student and Advisor Awards provide support for awardees to participate in the Undergraduate Education Program at the SOT Annual Meeting. This program is an introduction to the discipline of toxicology for undergraduate science majors and includes an orientation, a special poster session with scientists, and activities with an SOT mentor. The travel awards are for those from races and ethnic groups underrepresented in the sciences (for example, African American, American Indian, or Hispanic American) and for their advisors. The advisors are eligible regardless of racial or ethnic background. Meeting registration and support for travel, lodging, and meals are provided for students and advisors who are not local to the meeting site. Students and advisors from local institutions receive meeting and program registration and meals. In the past, the program has been supported in part by NIH-MARC, Pfizer, Johnson & Johnson, Covance, and other supporters. The recipient list is available on the website.

OUTSTANDING GRADUATE STUDENT LEADERSHIP AWARDS

The Outstanding Graduate Student Leadership Award is presented by the SOT Student Advisory Council in recognition of graduate student representatives who have contributed to the Society in a significant manner beyond the routine duties of a representative of a Regional Chapter, Specialty Section, or Special Interest Group.
Award Recipients

2009 ......... Enrique Fuentes-Mattei, Sheppard A. Martin
2010 ......... Haitian Lu, Prasad Krishnan, Erica N. Rogers
2011 ......... Heather M. Bolstad, James Michael Borland
2012 ......... Chad Brocker, Azita Cuevas
2013 ......... Shirisha Chittiboyina, Hannah Pope-Varsalona
2014 ......... Alessandro Venosa, Christin M. Grabinski, Brittany Baisch

PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD

The Perry J. Gehring Diversity Student Travel Award recognizes a student who was selected to participate in a previous SOT Undergraduate Program, is from an ethnic group underrepresented in toxicology (for example, African American, Hispanic, Native American or Pacific Islander), and is presenting a paper at the upcoming SOT meeting. The award recipient is selected by the Committee on Diversity Initiatives.

The Gehring Student Travel Award is provided through the Society of Toxicology Endowment Fund. This award recognizes Dr. Perry J. Gehring, who served as SOT President in 1980–1981 and made important scientific contributions, especially in biological modeling and evidence-based assessment. Dr. Gehring had a strong interest in encouraging individuals from ethnic groups underrepresented in the sciences to enter biomedical sciences and toxicology.

Award Recipients

2009 ........... Vanessa De La Rosa
2010 ........... Nygerma L. Dangleben
2011 ........... Eva A. Amouzougan
2012 ........... Alba K. Gonzalez Rivera
2013 ........... Alexandra Colón-Rodríguez
2014 ........... Pamela B. Tijerina

PFIZER SOT UNDERGRADUATE STUDENT TRAVEL AWARD

Pfizer SOT Undergraduate Student Travel Awards are presented by the Society of Toxicology to foster an interest in graduate studies in the field of toxicology by bringing promising undergraduate students to the SOT Annual Meetings. Pfizer, Inc., and SOT will provide up to ten awards per year to undergraduate students presenting research at the Annual Meeting. Awardees will be selected by the Education Committee based on the quality of the submitted abstract and the advisor's supporting recommendation. Those selected will receive travel assistance for the meeting, a plaque presented at the annual Awards Ceremony, and recognition at a special Pfizer function. Awardees will be matched with a graduate student and a Pfizer scientist to mentor them during the Annual Meeting, and will have the opportunity to attend the Society of Toxicology Undergraduate Education Program on the Sunday of the Annual Meeting.

Award Recipients

2006 ........... Shawntay Chaney, Theresa M. Eagle,
Natalie Malek, Adeliada Segarra, Ryan Vaughan
2007 ........... Kay Gonsalves, Lisa Koselke, Basharat Sanni,
Sonia Talathi, Anna Zimmerman
2008 ........... Amy DeMicco, Tharu Fernando, Yamel Perdomo, Amy
Yi Hsuan Saik, Kelly Sullivan
2009 ........... Sherine Crawford, Trish T. Hoang, Kelly Krcmarik,
Cory M. Mathias, P. Sean McGrath
2010 ........... Annie L. Carlton, Alisha Chitrakar, Megan E. Culbreth,
Chang Woo Lee, Sharon Ochs
2011 ........... Brandon Haghverdian, Jessica H. Hartman,
Camila Odio, Viviana Vidal Anaya, Phillip Alan Wages
2012 ........... Ashley Press, Darien Shapiro, Qi Wang, Brittany
Winner, Frances A. Xin
2013 ........... Amy Ashworth, Naing Bajaj, Adrienne R. Klinger,
Anna Lang, Douglas J. Saforo
2014 ........... Wesley Cai, Cory V. Gerlach, Lukas Gara, Elaine Kuo,
Virginia Mitchell, Kza P. Perez-Vale, Ricardo Rivera-Soto, Bradley Rowland, Kelly Schlotman, Jennette
Shoots, Kelly VanDenBerg

PUBLIC COMMUNICATIONS AWARD

The Public Communications Award is presented by the Society of Toxicology to an individual who has made a major contribution to broadening the awareness of the general public on toxicological issues through any aspect of public communications. The award should reflect accomplishments made over a significant period of time. Examples of qualifying media in which the nominated communication may appear are as follows: books, brochures, continuing education courses, databases, extension bulletins, magazines, newspapers (local or national), outreach, public presentations, public forums, radio and television scripts, and workshops. This award consists of a plaque and a cash stipend.

Award Recipients

1994 ........... Michael A. Kamrin
1995 ........... Philip Abelson*
1996 ........... Bruce N. Ames
1997 ........... Audrey Gotsch
1999 ........... Ann de Peyster
2001 ........... Anna Shvedova
2002 ........... Sam Kacew
2003 ........... Charlene A. McQueen
2004 ........... Kenneth Olden
2005 ........... Robert Kreiger
2007 ........... Linda S. Birnbaum
2010 ........... Philip Wexler
2012 ........... Martin A. Philbert
2013 ........... Martha A. Lindsey
2014 ........... David L. Eaton
The Society of Toxicology sponsors travel awards administered by IUTOX and sponsored by AstraZeneca, the Society of Toxicology and the SOT Endowment Fund. Awards are available to senior scientists from a country where toxicology is underrepresented to assist with travel to attend the Society of Toxicology Annual Meeting.

**Award Recipients**

2002 ..........Christophor Dishovsky (Bulgaria)
Zoltan Gregus (Hungary)
Maritza Rojas Martini (Venezuela)
Choon-Nam Ong (Singapore)
W. Wasowicz (Poland)
Ping-kun Zhou (China)

2003 ..........Jian-Hui Liang (China)
Eman A. Seif (Egypt)
Marjan G. Vracko (Slovenia)

2004 ..........Cristina Bolaton (Philippines)
P. K. Gupta (India)
Salmann Inayat-Hussain (Malaysia)
Xianping Ying (China)

2005 ..........Diana B. Apostolova (Bulgaria)
Marite Arija Bake (Latvia)
Theresa I. Fortuoul (Mexico)
Mary Gulumian (South Africa)
He Jiliang (China)
Khaliyda Khamidulina (Russia)
L. Orish Orisakwe (Nigeria)
Songsak Srianujata (Thailand)
Sinan Suzen (Turkey)

2006 ..........Olanike Adeyemo (Nigeria)
Deepak Argwal (India)
Carlos Colangelo (Argentina)
Sandra Demichelis (Argentina)
Mumtaz Iscan (Turkey)
Karolina Lybomirova (Bulgaria)
Osman Aly Osman (Egypt)
Shuang-Qing Peng (China)
Julia Radenkova-Saeva (Bulgaria)

2007 ..........Hatem Ahmed (Egypt)
Jiri Bajgar (Czech Republic)
Ismet Cok (Turkey)
Carlos Garcia (Peru)
Wenceslao Kiat (Philippines)
Calivarathan Latchoumycandane (Singapore)
Fateheya Metwally (Egypt)
Hilmi Orhan (Turkey)
Nwoha Umunna (Nigeria)

2008 ..........Gafe Rageh Ahmed (Egypt)
Sayed Bakry (Egypt)
Phillip Burcham (Australia)
Kemal Buyukguzel (Turkey)
Jin-Ho Chung (Korea)
Hande Gurer-Orhan (Turkey)
Lyndy McGaw (South Africa)
Zdravko Paskalev (Bulgaria)

2009 ..........Sema Burgaz (Turkey)
Estefania G. Moreira (Brazil)
Kolawole V. Olorunshola (Nigeria)
Kelly P. K. Olympio (Brazil)
Betzabet Quintanilla-Vega (Mexico)
Jalila Ben Salah (Tunisia)
Suleeporn Sangrajang (Thailand)

2010 ..........Asongale Emmanuel Acha (Cameroon)
Ayse Basak Engin (Turkey)
Ronnie A. D. Frazier-Williams (Sierra Leone)
Yan Li (China)
Jesus T. Olivero-Verbel (Colombia)
Suresh V. S. Rana (India)
Ganna Shayakhmetova (Ukraine)
Vanessa Steenkamp (South Africa)
Marcelo J. Wolansky (Argentina)
Motao Zhu (China)

2011 ..........Sonali Das (India)
Rawiwan Maniratanachote (Thailand)
Anoka A. Njan (Nigeria)
Daam Settachan (Thailand)**
Osman S. Shaik (India)
Songsak Srianujata (Thailand)
Omoniyi Kayode Yemitan (Nigeria)**
Qinli Zhang (China)
Bin Zhao (China)

2012 ..........Oladipo Ademuyiwa (Nigeria)
Murali Badanthadka (India)
Sunisa Chaiklieng (Thailand)**
Xianju Huang (China)
Zhenlie Huang (China)
Guojun Li (China)
Jianlin Lou (China)**
Maria Samaya (Guatemala)
Haixue Wang (China)
Jingshu Zhang (China)
XiaoFeng Zhang (China)
Li Zhou (China)

2013 ..........John I. Anetor (Nigeria)
Kailen Boodhia (South Africa)
Karina R. Caballero-Gallardo (Colombia)
Osama S. El-Tawil (Egypt)
Miriam Carolina Guzman Quilo (Guatemala)
Wafa Hassen (Tunisia)
Saleem Khan (India)
Wenceslao A. Kiat Jr. (Philippines)
Ravinesh Mishra (India)
Olubanke O. Ogunlana (Nigeria)

2014 ..........Samir Abbès, (Tunisia)
Wafa Hassen, (Tunisia)
Gopabandhu Jena, (India)
Sameeh A. Mansour, (Egypt)
Siti N. Mubarokah, (Indonesia)
Olufunke E. Ola-Davies, (Nigeria)
Iyekhoetin M. Omoruyi, (Nigeria)
Olufunke E. Ola-Davies, (Nigeria)
Yang Song, (China)
Jing Zhang, (China)

** Sponsored by the SOT Endowment Global Fund.
SOT HONORS, AWARD DESCRIPTIONS, AND HISTORY

UNDERGRADUATE EDUCATION AWARDS

The Undergraduate Educator Award, sponsored by the SOT Endowment Fund, is presented to an SOT member who is distinguished by outstanding contributions to the teaching of undergraduate students in toxicology and toxicology-related areas, and whose efforts support SOT’s strategic efforts to build for the future of toxicology. Members of the Society of Toxicology who have made significant contributions to undergraduate education in toxicology may be nominated and should have a faculty appointment with primary responsibilities in the teaching of undergraduates and demonstrate a distinguished undergraduate teaching record. This award consists of a plaque and a cash stipend.

Award Recipient
2011 .......... Joan B. Tarloff
2012 .......... Sue M. Ford
2013 .......... Sidhartha D. Ray
2014 .......... William D. Atchison

UNDERGRADUATE TOXICOLOGY EDUCATION AWARDS

The Undergraduate Toxicology Education Awards provide support for awardees to participate in the Undergraduate Education Program at the SOT Annual Meeting. This program is an introduction to the discipline of toxicology for undergraduate science majors and includes an orientation, a special poster session with scientists, and activities with an SOT mentor. The travel awards are for those from institutions that receive a limited amount of Federal funding in science and technology (list is available on the website). Preference in selection will be given to students who are first generation college attendees (that is, neither parent graduated from a four-year academic institution). Meeting registration and support for travel, lodging, and meals are provided for students who are not local to the meeting site. Students from local institutions receive registration, meeting materials, and an expense stipend. The recipient list is available on the website.

Award Recipients
2009 .......... Thomas W. Kensler
2010 .......... Kenneth E. McMartin
2011 .......... Weida Tong
2012 .......... John G. Benitez
2014 .......... Timothy D. Phillips

TRANSLATIONAL/BRIDGING TRAVEL AWARD

Two awards may be given annually to assist with travel to the SOT Annual Meeting to either a mid- or senior-level scientist or clinician with at least ten years postdoctoral research or clinical practice experience and who has an active research program, or currently is active either in the practice of clinical toxicology, medical toxicology, disease prevention, or in the application of transitional toxicology. Applicants may be either members or non-members of SOT and should provide a statement on how they will benefit from the travel award and be willing to write an article about the experience for the SOT Communiqué, attend the Clinical and Translational Toxicology Specialty Section meeting (held during the SOT Annual Meeting) and contribute to the process for developing ideas for the following year scientific sessions of the SOT Annual Meeting. This award consists of a cash stipend and a complimentary registration for the SOT Annual Meeting.

Award Recipient
2012 .......... Xuemei Huang
2013 .......... M. Shane Hutson

SOT REGIONAL CHAPTER AWARDS

Most SOT Regional Chapters provide awards to recognize outstanding students, postdoctoral fellows, or scientists throughout their career. Application requirements and deadlines vary. For more details refer to the Award descriptions on the SOT website at www.toxicology.org, under Regional Chapters or the Awards and Fellowships section.

SOT SPECIAL INTEREST GROUP AWARDS

SOT Special Interest Groups provide awards to recognize outstanding students, postdoctoral fellows, or scientists throughout their career. Application requirements and deadlines vary. For more details refer to the Award descriptions on the SOT website at www.toxicology.org, under Special Interest Groups or the Awards and Fellowships section.

SOT SPECIALTY SECTION AWARDS

Most SOT Specialty Sections provide awards at the SOT Annual Meeting to recognize outstanding students, postdoctoral fellows, or scientists throughout their career. Application requirements and deadlines vary. For more details refer to the Award descriptions on the SOT website at www.toxicology.org, under Specialty Sections or the Awards and Fellowships section.

TRANSLATIONAL IMPACT AWARD

The Translational Impact Award is presented to a scientist whose recent (in the last 10 years) outstanding clinical, environmental health, or translational research has improved human and/or public health in an area of toxicological concern. Scientists who are leaders in multidisciplinary team efforts who have contributed to alleviating toxicity-related health problems are particularly attractive candidates. The nominee may be a member or nonmember from any background (toxicologists, clinicians, basic scientists, epidemiologists, engineers, etc.). This award consists of a plaque and a cash stipend. The recipient delivers the Translational Impact Award Lecture at the SOT Annual Meeting.

Award Recipients
2009 .......... Thomas W. Kensler
2010 .......... Kenneth E. McMartin
2011 .......... Weida Tong
2012 .......... John G. Benitez
2014 .......... Timothy D. Phillips

VISIT THE SOT WEBSITE FOR UP-TO-DATE MEMBERSHIP INFORMATION AT WWW.TOXICOLOGY.ORG.

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ASTRAZENECA TRAVELING LECTURESHIP AWARD

Presented 1990–2012

The AstraZeneca Traveling Lectureship Award was presented through the Society of Toxicology to recognize excellence in research and service in toxicology. The Award also promote greater collaboration between European and North American toxicologists by enabling North American toxicologists to undertake a three-four week lecture tour of Europe. The award helped to familiarize recipients with research and regulatory issues in Europe and to bring a North American perspective to these issues.

Award Recipient

1990 Robert I. Krieger, Joseph R. Landolph
1991 Sam Kacew
1992 Charles V. Smith, Jerold A. Last
1993 Terrence James Monks, Harihara H. Mehendale
1995 David L. Eaton, Hanspeter R. Witschi
1996 Rick G. Schnellmann, James P. Kehrer
1997 Lucio G. Costa, Durisala Desaiah
1998 Syed F. Ali, Curtis J. Omiecinski
1999 Alvaro Puga
2000 Kenneth Ramos, Garold Yost
2001 Ronald Hines, Richard Seegal
2003 William D. Atchison
2004 Charlene A. McQueen
2005 Kevin M. Crofton
2006 Robert A. Roth
2007 Michael S. Denison
2008 José E. Manautou
2009 Kim Boekelheide
2010 J. Chris Corton
2011 Saber Hussain
2012 Bhagavatula Moorthy

COLGATE-PALMOLIVE AWARDS FOR STUDENT RESEARCH TRAINING IN ALTERNATIVE METHODS

The purpose of the Colgate-Palmolive Awards for Student Research Training in Alternative Methods is to enhance student research training using in vitro methods or alternative techniques to reduce, replace or refine use of animals in toxicological research. The Awards Committee will present the awards to graduate students. Two or more awards, up to $3,750 each, are available annually. Awards will defray travel, per diem, and training expenses.

The award is for expenses for training consistent with the goal of this award program. The training may include, but is not limited to, use of in vitro and ex vivo procedures, use of nonmammalian animal models, computer modeling, and structure-activity relationships. Graduate students may propose to develop expertise in relevant methodologies at 1) a laboratory away from their home institution; 2) a laboratory at their home institution that would not be available to them otherwise; or 3) approved workshops, symposia, or continuing education programs where hands-on training will be received. The training should help toxicology graduate students enhance their thesis or dissertation research.

Award Recipients

2000 Jason Gross
2001 Jason Biggs, Victoria Richards
2002 Kartik Shankar, Chad M. Vezina, Ryan L. Williams
2003 Sachin Devi, Midhun Korrapati, Pallavi Limaye
2004 Jaya Chilikapati, Marc A. Nascarella
2005 Vishaka Bhave, Ankur Dnyanmote, Jonathan Maher
2006 Mary Hassani, Prajakta Palkar
2007 Renee Gardner, Prajakta Palkar, Rohit Singhal, René Vinas
2008 Kimberly A. Hays, Haitian Lu
2009 Jennifer Cole, Katie Beth Paul, Samuel Peterson
2010 Maxwell C. K. Leung, David T. Szabo, Natalia M. VanDuyn
2011 Vijay More
2012 Agnes Forgacs, René Viñas, Aaron Lulla
2013 Aaron Lulla, Jamie Moscovitz, Alexandra Muñoz
2014 Laura E. Armstrong, Christin M. Grabinski
SPONSORED AWARD DESCRIPTIONS AND HISTORY

COLGATE-PALMOLIVE GRANTS FOR ALTERNATIVE RESEARCH

The Colgate-Palmolive Grants for Alternative Research will identify and support efforts that promote, develop, refine, or validate scientifically acceptable animal alternative methods to facilitate the safety assessment of new chemicals and formulations. Scientists at any stage of career progression may submit a proposal.

High priority will be given to projects that use in vitro or nonanimal models, reproductive and developmental toxicology, neurotoxicology, systemic toxicology, sensitization, and acute toxicity.

The maximum award is $40,000, made as a single lump payment. Awardees can re-apply for funding in subsequent years.

Award Recipients

2006 .......... Rola Barhoumi, Abby Benninghoff, Jodie Flaws, Courtney Sulentic, Xiaouzhong Yu
2008 .......... Daniel R. Ceven, Duncan C. Ferguson, Shashi K. Ramiah
2009 .......... Qin M. Chen, Timothy J. Shafer, Mehmet Uzumcu
2010 .......... Patrick Allard, Duncan C. Ferguson, Mehmet Uzumcu
2011 .......... Patrick Allard, Hao Zhu
2012 .......... Mingzhu Fang, Jennifer Freeman
2013 .......... Lei Li Kerr, Hao Zhu
2014 .......... Patricia E. Ganey, Matthew Troese

COLGATE-PALMOLIVE POSTDOCTORAL FELLOWSHIP AWARD IN IN VITRO TOXICOLOGY

The Colgate-Palmolive Company sponsors the Colgate-Palmolive Postdoctoral Fellowship Award in In Vitro Toxicology through the Society of Toxicology to advance the development of alternatives to animal testing in toxicological research. The award is given annually and includes stipend and research-related costs up to $44,000 for one year (including funding to attend the SOT Annual Meeting to present this research). The award is available to postdoctoral trainees employed by academic institutions, federal/national laboratories, or research institutes worldwide. Preference will be given to applicants in their first year of postdoctoral study.

Award Recipients

1988 .......... Ernest Bloom
1989 .......... Gin Hsieh
1990 .......... Dennis E. Chapman
1991 .......... Anne Walsh
1992 .......... Qin Chen
1993 .......... Erika Creton
1994 .......... William Chan
1995 .......... Bob Van de Water
1997 .......... Alan Parrish
1999 .......... Russell Thomas
2001 .......... Kevin Kerzee, Christopher Reilly
2002 .......... Kevin Kerzee
2003 .......... Kimberly Miller
2004 .......... Kimberly Miller
2005 .......... Francis Tukov
2007 .......... Aaron Rowland
2008 .......... Aaron Rowland
2009 .......... Ankur Dnyanmote
2010 .......... Ankur Dnyanmote
2011 .......... Cassandra Deering-Rice
2012 .......... Melanie Adler
2013 .......... Melanie Adler
2014 .......... Jonathan H. Shannahan

COLGATE-PALMOLIVE TRAVELING LECTURESHIP IN ALTERNATIVE METHODS IN TOXICOLOGY AWARD

Presented 1996–2008

Award Recipients

1996 .......... University of Mississippi Medical Center
Visiting Professor: Tetsuo Satoh
1996 .......... University of Illinois at Urbana
Visiting Professor: Julio Davila
1996 .......... Mississippi State University
Visiting Professor: Michael Holsapple
1996 .......... Washington State University
Visiting Professor: Daniel Acosta
1997 .......... Indiana University School of Medicine
Visiting Professor: A. Jay Gandolfi
1997 .......... University of Arizona Health Science Center
Visiting Professor: Kevin E. Driscoll
1997 .......... University of New Mexico Health Sciences Center
Visiting Professor: Sam Kacew
1997 .......... University of Illinois
Visiting Professor: Michael Denison
1998 .......... University of Washington
Visiting Professor: Bruce Fowler
1998 .......... San Diego State University
Visiting Professor: Leigh Ann Burns Naas
1999 .......... San Diego State University
Visiting Professor: Robert Chapin
2000 .......... Yale University, School of Medicine
Visiting Professor: Narendre Singh
2001 .......... Medical College of Wisconsin
Visiting Professor: Garold Yost
2003 .......... Washington State University
Visiting Professor: Marc W. Fariss
2004 .......... University of Louisiana at Monroe
Visiting Professor: Snorri S. Thorgerisson
2008 .......... University of Louisiana at Monroe
Visiting Professor: George Michalopoulos
NOVARTIS GRADUATE STUDENT FELLOWSHIP AWARD

Presented 1989–2012

The Novartis Graduate Student Fellowship Award was presented to student members of the SOT engaged in full-time graduate study towards a PhD in toxicology. The major professor must be an SOT member. Evaluation of the applications was based primarily on originality of the dissertation research, research productivity, relevance to toxicology, scholastic achievement, and letters of recommendation.

(Recipients of Graduate Student Fellowship Awards no longer offered may be found on the SOT website at www.toxicology.org.)

SYNGENTA FELLOWSHIP AWARD IN HUMAN HEALTH APPLICATIONS OF NEW TECHNOLOGIES

The Syngenta Fellowship Award in Human Health Applications of New Technologies is presented to either a third year (or later) graduate student or a postdoctoral trainee. Funding in the amount of $15,000 is to support mode-of-action research aimed at characterizing dose-dependent effects of xenobiotics on mammalian systems in such a way that the causal sequence of key events underlying toxicity is elucidated. The work should permit a quantitative basis for extrapolation of the results from animal bioassays or animal models (in silico, in vitro) to humans at relevant human doses. The awardee will receive funding to travel to the SOT Annual Meeting to accept the award and for travel to a Syngenta facility to present the results.

Award Recipients

2010............ Haitian Lu
2011............ Michelle C. DeSimone
2012............ Benjamin Moeller
2013............ Julia E. Rager
2014............ Dilshan S. Harischandra
Sir John B. Gurdon, Kt, DPhil, DSc, FRS, was a zoology undergraduate at Oxford University and returned, after a postdoc year at CalTech, as Lecturer in Embryology. In 1971, he joined the MRC molecular biology lab in Cambridge to continue his work on amphibian developmental biology. In 1983 as John Humphrey Plummer Professor of Cell Biology at the University of Cambridge, he co-founded a research institute of developmental and cancer biology (now named the Gurdon Institute) with Professor Laskey, acting as Chairman until 2002. His career has concentrated on nuclear transplantation in the frog and experiments to discover the value of mRNA microinjection, mechanisms of response to morphogen gradients, and recently, mechanisms of nuclear reprogramming by Xenopus oocytes and eggs. Master of Magdalene College Cambridge from 1995–2002, he has received various recognitions, including the 2009 Lasker Award for Basic Medical Science and the Nobel Prize for Physiology or Medicine in 2012.

The Society is pleased to recognize Dr. Gurdon as a 2014 SOT Honorary member.

Donald E. Ingber, MD, PhD, Founding Director of the Wyss Institute for Biologically Inspired Engineering, Harvard University; the Judah Folkman Professor of Vascular Biology at Harvard Medical School and Boston Children’s Hospital; and Professor of Bioengineering at the Harvard School of Engineering and Applied Sciences. He also leads the Biomimetic Microsystems platform in which microfabrication techniques from the computer industry are used to build functional circuits with living cells as components. Dr. Ingber has authored more than 325 publications and 70 patents and has received numerous honors including the Holst Medal, Pritzker Award from the Biomedical Engineering Society, Rous-Whipple Award from the American Society for Investigative Pathology, Lifetime Achievement Award from the Society of In Vitro Biology, the Department of Defense Breast Cancer Innovator Award and SOT Leading Edge in Basic Science Award.

The Society is pleased to recognize Dr. Ingber as a 2014 SOT Honorary member.

Matthew J. Campen, PhD, MSPH, is awarded the 2014 SOT Achievement Award.

Dr. Campen received his PhD degree from the Department of Environmental Science and Engineering at the University of North Carolina at Chapel Hill, School of Public Health in 2000 and has served as an Associate Professor, Pharma-ceutical Sciences Department, College of Pharmacy, University of New Mexico, in Albuquerque, New Mexico, since 2009.

Dr. Campen has established methods to assess mode of action of vascular dysfunction and mediator-based injury. He has developed an innovative approach in vitro in which he can use rodent blood vessels as a biometric tool to detect and assess mediators that arise in the serum in humans exposed to ozone or PM. His laboratory is unique in its ability to explore acute vascular injury and the pathogenesis of atherosclerotic disease due to chronic air pollution exposure.

Dr. Campen has contributed a great deal to our understanding of how airborne toxicants, such as particulate matter and ozone, cause systemic vascular insult. His most recent work (Channell et al., ToxSci 2012; Robertson et al., 2013) has shown that, in both rodents and humans, exposure to inhaled pollutants can induce compositional changes in the blood that leads to inflammatory responses in the systemic vasculature, which is effectively the initiating step in atherosclerosis. Additionally, Dr. Campen has contributed to regulatory efforts by the Environmental Protection Agency, writing sections on cardiovascular health outcomes related to carbon monoxide and particulate matter for recent Integrated Science Assessments.

Dr. Campen has been a member of SOT since 2002. He received the Mary O. Amdur Award for Environmental Inhalation Toxicology in 1999 and the Young Investigator Award from the Inhalation and Respiratory Specialty Section in 2013. He served in the presidential chain for the Mountain West Regional Chapter of SOT from 2005–2007. He was a member of the SOT Disease Prevention Task Force, 2008–2011. In addition, Dr. Campen was President and a Founding Officer of the Cardiovascular Specialty Section, 2010–2012. He currently serves on the Publications Committee (2012–2016, Co-Chair, 2013). Dr. Campen served with distinction as the interim Co-Editor-in-Chief of Toxicological Sciences during this past year.

The Society is pleased to present Dr. Campen with the 2014 SOT Achievement Award.
B. Bhaskar Gollapudi, PhD, is awarded the 2014 SOT Arnold J. Lehman Award. Dr. Gollapudi received his PhD degree in Biology from Dalhousie University, Canada. He is currently a Senior Managing Scientist in Exponent’s Health Sciences Center for Toxicology and Mechanistic Biology. Dr. Gollapudi specializes in genetic toxicology and chemical carcinogenesis with emphasis on the identification of mode of action and human relevance. Dr. Gollapudi has made many contributions to the field of Genetic Toxicology, including the development of novel approaches for assessing genotoxicity, integration of contemporary molecular biology techniques to understand the mode of genotoxic action, and, more importantly, in leading the push for a paradigm shift in the dogma that there are no thresholds for genotoxic chemicals.

Currently, he is leading an effort under the auspices of International Workshops on Genotoxicity Testing (IWGT) to standardize a new in vivo gene mutation assay (Pig-a), which can be easily integrated into any repeat-dose toxicity studies. Dr. Gollapudi has contributed to the area of transgenic animal models for mutagenicity and carcinogenicity assessment and spearheaded their validation in the chemical/agrochemical industry to inform risk assessment. His focus has been on the application of genetically engineered animal models for the identification of mode of action and human relevance of toxicology findings. In recent years, Dr. Gollapudi contributed to the emerging field of epigenetics by critically evaluating its role in product safety assessment and investigating potential markers predictive of adverse toxicological outcomes. He has applied latest technologies in the safety assessment of a diverse portfolio of substances.

Dr. Gollapudi has been a member of the Society of Toxicology since 1998. He has been very active within the Society, having served as Associate Editor of Toxicological Sciences from 2005–Present; member of the SOT Scientific Program Committee from 2011–Present; and member of SOT Career Resource and Development (CRAD) Committee from 2007–2010.

The Society is pleased to present Dr. Gollapudi with the 2014 Arnold J. Lehman Award.

The Postdoctoral Assembly congratulates these three recipients for their accomplishment.

Annie Lumen, PhD, National Center for Toxicological Research/US FDA, Jefferson, AK

Gul Mehnaz Mustafa, PhD, University of Texas Medical Branch, Galveston, TX

Phoebe A. Stapleton, PhD, West Virginia University, Morgantown, WV
Nano-Engineering Answers to Asbestos Toxicity

Many individuals are familiar with the commercials recruiting people into class-action lawsuits for mesothelioma. The scourges of the late-night Saul Goodmans notwithstanding, mesothelioma is a real health concern. Inhalation of asbestos fibers can lead to chronic lung inflammation with devastating results. The malignancies that develop in the parietal pleura impair pulmonary function, cause significant chest pain, and lead to other abdominal difficulties. Thousands of people are diagnosed every year. Many of the sufferers were exposed in the workplace decades ago.

For years we have known that inhalation of the fibers was dangerous. The precautionary steps taken during asbestos abatement are with good reason, but we know less about the process of mesothelioma initiation. What is the role of the fiber dimensions in the disease? Specifically, the field has wanted to ascertain the length at which the fibers become pathogenic. Asbestos products used in industrial nations are a mixed bag with a wide array of fiber lengths. It has been nearly impossible to figure out this threshold length.

In Toxicological Sciences (Tox. Sci. 2012, 128(2): 461–470), research from the laboratory of Ken Donaldson took advantage of high aspect ratio nanomaterials (HARN), nanowires, nanotubes, and nanorods to shed some light on this problem. The explosive growth of nanotechnology has put an ominous cloud over HARN. There is concern that such materials may lead to future health concerns analogous to the asbestos-mesothelioma connection, but the Donaldson group went right to the silver lining...literally. By synthesizing silver nanowires of precise lengths and then testing them for their ability to cause pleural inflammation, they were able to identify the toxic threshold as 4 microns.

Additional experiments with carbon nanotubes and nickel fibers confirmed the results; fibers longer than 4 microns induced inflammation, which is a key event in mesothelioma initiation.

While the direct introduction of the materials into the pleural cavity bypasses the normal route of inhalation, we know that long (> 25 micron) asbestos fibers traverse these barriers and end up in this pleural space. It is likely that many of the HARN will possess the same qualities as asbestos. Fortunately, we know the dangers of fiber particles and with HARN we have the ability to control their synthesis.

This study not only provided much needed insight into the initiating events in asbestos-induced mesothelioma, it could also prompt changes in industry practices that can prevent future disease incidence. By identifying the threshold length for inflammation, they have generated a blueprint for safer products. As they suggest in the paper, the engineering process of synthetic nanofibers should follow the green chemistry slogan of “benign-by-design”. Ideally, industries involved in the production of HARN will read the findings published here in ToxSci, embrace the benign mantra, and work to design and produce products with reduced toxic potential. The field of toxicology will always be open for business, but wouldn’t it be nice if things slowed down a bit?
Herman N. Autrup, PhD, ATS, is awarded the 2014 SOT Education Award.

Dr. Autrup received his PhD in Experimental Pathology in 1975 from the University of Nairobi, Kenya. He currently serves as a professor in Environmental Medicine at the Institute of Public Health, at University of Aarhus in Denmark.

Dr. Autrup has made impressive contributions to education in the area of environmental health. He established the curriculum in environmental and occupational medicine at Aarhus University in 1990 and currently teaches courses in Human Toxicology, a course in Toxicology and Environmental Health as part of a diploma program offered by Aarhus University, and lectures in environmental and occupational medicine for medical students. These courses are widely recognized in Scandinavia and are well attended each year. Professor Autrup is also editor for the textbook Miljø-og Arbejdsmedicin (Environmental and Occupational Medicine) that is used throughout Denmark.

Even more impressive than his teaching efforts within Denmark, Professor Autrup has made a concerted effort to bring education in environmental health to other areas of the world—often where it is most needed. In 1998, he developed a graduate-level course in Environmental and Health Risk Assessment and Management of Toxic Chemicals for the Chulabhorn Research Institute in Bangkok, Thailand.

More recently, he also has developed an Advanced Environmental Health Sciences for the doctoral training program at the Chulabhorn Research Institute. Finally, Professor Autrup has extended his global outreach and has been invited to give lectures and present executive-level short courses on risk assessment and toxicology by professional organizations in Uganda, Zimbabwe, Kenya, Bolivia, Thailand, Vietnam, and Bhutan.

Dr. Autrup serves as an Associate Editor of Toxicological Sciences and has been a member of SOT since 1998.

The Society is pleased to present Dr. Autrup with the 2014 SOT Education Award.

John A. Thomas, PhD, ATS, FACT, is awarded the 2014 SOT Founders Award.

Dr. Thomas received his PhD from the University of Iowa in 1961. Currently he is a Professor Emeritus in the Department of Pharmacology at the University of Texas Health Science Center, San Antonio, Texas; as well as an Adjunct Professor at the Indiana University School of Medicine, Indiana.

Throughout his distinguished career, Dr. Thomas’ contributions to toxicological sciences in many different areas ranging from the safety of nutrients and food ingredients, to pharmaceuticals, diagnostics, health-promoting agents and environmental chemicals, have been highly recognized by his peers and the scientific community. He continues to be an educator and a scientist, and the discipline of toxicology will continue to benefit from his vision and leadership. During his years in academia, he mentored undergraduate and graduate students, postdoctoral fellows and numerous colleagues.

In addition to his several decades as an educator in the United States and internationally, Dr. Thomas has volunteered his expertise as a member of various governmental science boards and advisory committees, on various editorial boards, and has provided his expertise as a consultant to the US FDA, National Academy of Sciences and the Department of Defense. Dr. Thomas is a Past President of the Academy of Toxicological Sciences and also the American College of Toxicology. He is a Fellow in the American College of Toxicology and also the Russian Academy of Medical Sciences.

As a member of SOT since 1971, Dr. Thomas has served as an SOT Continuing Education Lecturer (1983, 1985, and 1988); SOT Councilor (1985–1987); President of two Regional Chapter Executive Committees: Midwest Chapter (1988) and Gulf Coast Chapter (now Lone Star Chapter, 1998); and as the SOT Education Committee Chair (2000). He is the recipient of multiple prestigious awards including the SOT Merit Award (1998) and both the Commissioner’s and Distinguished Service Awards from the US FDA.

The Society is pleased to further recognize Dr. Thomas with the 2014 Founders Award.
GLOBAL SENIOR SCHOLAR EXCHANGE PROGRAM

The Society of Toxicology Global Senior Scholar Exchange Program aims to increase the global impact of toxicology on human health and safety by working to strengthen toxicology programs and capacity in universities in developing countries. SOT sponsors specific collaborations between selected Senior Scholars from academic institutions in developing countries and SOT Member Hosts from established academic, government, and industry toxicology programs worldwide. The program enables an exchange visit of these scientists to support the developing country university’s core toxicology curriculum, increase research collaborations, provide courses or symposia on toxicology topics of high priority in the developing country, and fund the senior scholar to attend the SOT Annual Meeting as an opportunity to present research and establish networking opportunities.

Gonzalo J. Diaz, DVM, PhD, National University of Colombia, Bogota, Colombia

Dr. Diaz is widely recognized in the field of mycotoxins and plant toxins especially in the Andean region. He is a Professor of Toxicology in the Department of Sciences for Animal Health, College of Veterinary Medicine, at the National University of Colombia. He received his MS and PhD degrees at the University of Guelph, Ontario, Canada, with Colombian sponsorship. His PhD in Toxicology/Nutrition was in the Department of Animal and Poultry Science, Ontario Agricultural College and he continued there with postdoctoral research in the Proteomics Laboratory, Department of Biomedical Sciences. He holds two patents, has authored four books and numerous book chapters and other publications.

The National University of Colombia is the largest academic institution in Colombia, having close to 30,000 students and 8 campuses across the country. The Toxicology Program is under the Department of Toxicology in the College of Medicine, consisting of faculty from different departments and colleges. Currently he serves as the head of the Toxicology Laboratory and director of the Avian Nutrition and Toxicology Research Group. He supervises graduate students in both the Human Toxicology and Veterinary Toxicology programs as well as teaches an undergraduate course on Veterinary Toxicology and two graduate courses on Advanced Toxicology and Toxicants of Natural Origin.

The Global Senior Scholar Exchange Program will assist Dr. Diaz in establishing collaboration in the field of mycotoxins as well as strengthening the existing toxicology graduate program. Dr. Diaz is interested in toxins produced during the processing of foods such as acrylamides. This is of particular interest in Colombia, as deep-fried carbohydrate-containing foods are normally consumed and may contain these toxins. Some foods such as yucca (Manihot sculenta), plantain, potato, and corn chips are of particular interest in Dr. Diaz’s research. Specific areas of collaboration between Dr. Diaz and his host institution will focus on toxicants of natural origin and from food processing. Toxins from plants and from fungi can affect both animals and humans and are strictly regulated in human foods. Investigating fungi requires the existence of laboratories that are highly competent in mycotoxin testing and staffed with experienced toxicologists in this field.

Host:
Wilson Kiiza Rumbeiha, DVM, PhD, DABT, DABVT, Iowa State University College of Veterinary Medicine, Ames, IA

Dr. Diaz will be hosted by Wilson K. Rumbeiha under the Interdepartmental Graduate Toxicology Program at Iowa State University (ISU). Dr. Rumbeiha was the Section Head of the Veterinary Diagnostic Toxicology Laboratory, College of Veterinary Medicine, at Michigan State for over 12 years before relocating to ISU, where he now conducts research on neurotoxicology of sulfide gases, cyanotoxins, and applied clinical and diagnostic veterinary toxicology. He also is the president of Toxicologists Without Borders, a humanitarian organization of toxicologists working with other professions to solve toxicology-related issues in developing countries. ISU is an institution with a vibrant interdepartmental toxicology program with an intense curriculum leading to the award of MS and PhD degrees. The Veterinary Toxicology Training Program is one of two active Veterinary Toxicology Residency Training programs in the US. The broader interdepartmental program has core members from departments across campus including Food Safety and Nutrition. Some of the core faculty are engaged in mycotoxin research. Dr. Diaz will have the opportunity to interact with faculty of the Interdepartmental Toxicology Program. Dr. Diaz’s program will benefit from learning how the host curriculum is structured to strengthen the existing toxicology graduate program at the National University of Colombia. In addition, Dr. Rumbeiha will travel to Colombia to engage in teaching, curriculum development, and to explore collaborative research projects.

(continued to next page)
Dr. Farombi is currently Dean, Faculty of Basic Medical Sciences, and Director, Molecular Drug Metabolism and Toxicology Research Laboratories, at the University of Ibadan. He received his PhD from the University of Ibadan and completed his postdoctoral training at the University of Liverpool, United Kingdom.

Dr. Farombi's research over the past 20 years has included molecular toxicology, cellular oxidative stress mechanisms in toxicology, reproductive and environmental toxicology, antioxidant redox biochemistry, nutraceuticals as prophylactic agents, and nutrigenomics. He is known nationally and internationally for his contributions on the biochemical and molecular mechanisms of chemoprevention using Kolvirion, a natural antioxidant biflavonoid from the seed of Garcinia kola (bitter kola, a widely consumed nut in West Africa). The Department of Biochemistry and its Toxicology program are recognized for their pioneering research on environmental compounds such as aflatoxins, palmotoxins, N-nitroso compounds, perfluoride and aryl alkyl sulfonamide pesticides, glyphosates (a broad-spectrum herbicide), naturally occurring coumarin compounds chalepin, imperatorin and oxypeucadanine isolated from medicinal plants, and polycyclic aromatic hydrocarbons.

An effective and productive researcher and supervisor, he has mentored over 150 graduate students in areas including environmental and reproductive toxicology and chemoprevention. He has authored or co-authored over 130 scientific articles and ten book chapters and recently edited the book Nutritional Antioxidants in Cancer and Degenerative Diseases with contributors from Nigeria, Cameroon, USA, Mauritius, South Africa, Japan, and Denmark. Dr. Farombi has received several international fellowships and grants. He is currently Vice President of the Society for Free Radical Research (SFRR)-Africa, and serves as Editor-in-Chief of the journal of the West Africa Society of Toxicology (WASOT).

Some of the expectations for this Global Senior Scholar Exchange include updating graduate training in molecular and biochemical toxicology at the University of Ibadan, developing a mechanism for interchange of graduate and postdoctoral trainees, strengthening collaboration and facilitating technology transfer, and increasing exposure to toxicogenomics and molecular techniques relevant to probing the underlying toxicity mechanisms of environmental chemicals. Ultimately Dr. Farombi would like to increase the capacity of the toxicology program in Ibadan University and the region to produce well-trained toxicologists to address safety, quality, and regulatory standards for drugs, chemicals, and foods. For example, the use of complementary and alternative medicines derived from medicinal plants prepared by traditional doctors is very common in the region and there is a dearth of appropriately trained scientists to investigate the safety profiles of these medicines. This and similar programs are invaluable in helping the region make a dent in the vast need for local expertise.
LEADING EDGE IN BASIC SCIENCE AWARD

Vishal S. Vaidya, PhD, is awarded the 2014 SOT Leading Edge in Basic Science Award.

Dr. Vaidya received his PhD in Toxicology from the University of Louisiana in 2003. As an Assistant Professor at Harvard Medical School, he leads the Systems Toxicology Program within the Harvard Program in Therapeutic Sciences and directs the Laboratory of Kidney Toxicology and Regeneration at Brigham and Women’s Hospital.

His work in the past five years will change the way textbooks are written and science is conducted with respect to deploying biomarkers for monitoring kidney damage. Dr. Vaidya challenged the fundamental mechanism of kidney toxicity regarding injury assessment and developed, evaluated, and validated novel tools for biomarker detection applicable from bench to bedside, comparing the remarkably consistent sensitivity and specificity of urinary Kim-1 over several other potential biomarkers in a large number of collaborative studies. These studies are going to have a very significant impact on the way we monitor for kidney toxicity in drug development and in the clinic.

The outcome of his work in collaboration with Predictive Safety Testing Consortium is such that Kim-1 is now accepted by US, European, and Japanese Regulatory Agencies as a suitable marker of kidney injury to be used in drug discovery. Currently he is exploring the role of fibrinogen and related molecules and miRNAs as possible mechanistic markers of kidney injury in humans.

In 2011, Dr. Vaidya was awarded the Outstanding New Environmental Scientist Award by NIEHS, and in 2013, he was chosen to be one of six North American scientists to receive the Innovation in Regulatory Science Award from Burroughs Wellcome Fund. Dr. Vaidya has been a member of the Society since 1999. During this time he has served as a member of the CRAD Committee (2006–2009) and Continuing Education Committee (2011–2014). He has also served as Councillor to the SOT Northeast Regional Chapter.

The Society is pleased to further recognize Dr. Vaidya with the 2014 SOT Leading Edge in Basic Science Award.

MERIT AWARD

Jay I. Goodman, PhD, ATS, is awarded the 2014 SOT Merit Award.

Dr. Goodman is a Professor in the Department of Pharmacology and Toxicology, and Faculty Member, at the Center for Environmental Toxicology, Michigan State University. He is a Diplomate of the American Board of Toxicology and a Fellow of the Academy of Toxicological Sciences. His research interests are focused on discerning epigenetic mechanisms underlying carcinogenesis and other chemical-induced toxicities, and testing the hypothesis that the capacity to maintain the normal epigenetic status is related inversely to susceptibility to carcinogenesis.

Extensively involved in the training of the next generation of toxicologists, scientists, and physicians, Dr. Goodman has served as a mentor and advisor for many PhD students and postdoctoral fellows. He chaired his Department’s Graduate Committee from 1979–1997 and served as the Interim Chair of the Department of Pharmacology and Toxicology, Michigan State University from 2001–2002.

Dr. Goodman has received numerous awards for his scientific achievements, including the Distinguished Alumnus Award, Doctoral Program in Pharmacology, University of Michigan; the John Barnes Prize Lecture, British Toxicology Society; and the George H. Scott Memorial Award from the Toxicology Forum, among others. He is also the first American to serve on a EUROTOX committee.

Dr. Goodman has participated actively on numerous SOT Committees and Task Forces including the Awards, Nominating, and Program Committees, and in SOT leadership as President of the Michigan Regional Chapter, SOT Secretary, and SOT President. He has published more than 125 peer reviewed manuscripts, given numerous invited presentations both nationally and internationally, and has participated on review panels and advisory boards for the NIH, NIEHS, NSF, NTP, US EPA, CDC, American Board of Toxicology, Academy of Toxicological Sciences, and the International Life Sciences Institute, Health and Environmental Sciences Institute. He continues to serve on editorial boards and as an advisor on toxicologic issues.

The Society is pleased to present Dr. Goodman with the 2014 Merit Award.
PERRY J. GEHRING

DIVERSITY STUDENT TRAVEL AWARD

Pamella B. Tijerina,
New York University School of Medicine, Tuxedo Park, NY

Abstract Title: Gene Expression Alterations in the Brain Elicited by Inhalation of Silver Nanoparticles

PUBLIC COMMUNICATIONS AWARD

David L. Eaton, PhD, ATS, is awarded the 2014 SOT Public Communications Award.

Dr. Eaton has served on numerous National Academy of Sciences/National Research Council committees, helping to communicate scientific advice to federal agencies and organizations, often related to controversial areas in toxicology.

Dr. Eaton has been very active in the leadership of the Society of Toxicology. Appropriately he first began as a member on the Committee on Public Communications, from there he served on various committees including the Membership and Finance Committees. He also served as a member on the Board of Publications in addition to many other advisory boards, task forces, and working groups. He received the SOT Achievement Award in 1993. He has the distinction of having served on the Society’s Council as SOT Secretary and SOT President. Dr. Eaton was elected, as a fellow of the Academy of Toxicological Sciences in 2000, and as a fellow of the American Association for the Advancement of Science in 2003. He was recently elected to the Washington Academy of Sciences and in 2011 was elected to the Institute of Medicine of the National Academies.

The Society is pleased to present Dr. Eaton with the 2014 Public Communications Award.

SOT/ASTRAZENECA/SOT ENDOWMENT FUND/IUTOX TRAVEL AWARDS

Samir Abbès, PhD, Higher Institute of Biotechnology of Béja, Béja, Tunisia
Wafa Hassen, PhD, High Institute of Biotechnology, University of Monastir, Monastir, Tunisia
Gopabandhu Jena, PhD, National Institute of Pharmaceutical Education and Research (NIPER), Mohali, India
Sameeh A. Mansour, PhD, National Research Centre, Giza, Egypt
Siti N. Mubarokah, MSc, Laboratory of Pharmacology, School of Medicine, University of Islam Malang, Malang, Indonesia
Olufunke E. Ola-Davies, PhD, University of Ibadan, Ibadan, Nigeria
Iyekhoetin M. Omoruyi, MSc, Benson Idahosa University, Benin City, Nigeria
Ishiaq Omotosho, PhD, College of Medicine, University of Ibadan, Ibadan, Nigeria
Muneeb U. Rehman, PhD, Department of Pharmaceutical Sciences, University of Kashmir, Springar, India
Yang Song, PhD, Zhejiang Academy of Medical Sciences, Hangzhou, China
Jing Zhang, MSc, Shanxi Medical University, Taiyuan City, China

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The Society is pleased to present Dr. Eaton with the 2014 Public Communications Award.
Timothy D. Phillips, PhD, ATS, is awarded the 2014 SOT Translational Impact Award.

Dr. Phillips is a Distinguished Professor and holds the Reed Endowed Chair in Toxicology at Texas A&M University. Since joining the faculty in 1979, he has published more than 185 papers.

Dr. Phillips' pioneering research in the United States and Africa has established that dioctahedral smectite clays, used as ancient medicine more than 2,000 years ago, can bind and render harmless food-borne contaminants such as aflatoxin B1. These toxins have been strongly associated with disease and death in people, particularly infants and children in developing countries. The findings from his research are directly relevant to high-risk populations (animals and humans) who suffer the consequences as a result of frequent dietary aflatoxin exposure. This work is expected to improve food and feed safety, quality, and security for greater than 4.5 billion people and their animals living in climates conducive to the growth of fungi.

Dr. Phillips' ongoing translational work in the US and Africa has confirmed the safety, palatability and efficacy of field-practical, clay-based strategies. The delivery of a therapeutic dose of clay has been established using common foods and nutritional supplements. Further developments of his research have resulted in wide-ranging implications for the prevention of chemotherapy-induced diarrhea and the treatment of chronic gastrointestinal illness.

Additionally, Dr. Phillips teaches future toxicologists on the subjects of Food Toxicology, Scientific Ethics, and Chemical Hazard Assessment. He is an internationally recognized leader in Food Safety and Toxicology, and has served on panels for numerous International Organizations and Academic Institutions worldwide.

Dr. Phillips has been a member of SOT for over 30 years. During this time he has served on the SOT Awards and Nominating Committees. He was also the President of the Lone Star Regional Chapter (formerly known as the Gulf Coast Chapter).

The Society is pleased to present Dr. Phillips with the 2014 SOT Translational Impact Award.

William D. Atchison, PhD, is awarded the SOT 2014 Undergraduate Educator Award.

Dr. Atchison received his PhD in Pharmacology from the University of Wisconsin, School of Pharmacy. Currently he serves as an Associate Dean for Research and Graduate Studies, College of Veterinary Medicine, Michigan State University. There he received the MSU Distinguished Faculty Award, which is among the highest honors bestowed upon faculty members. Dr. Atchison's research has resulted in over 95 articles in peer-reviewed literature and 14 book chapters. During his tenure, he has trained 17 PhD students, 6 graduate students, and more than 100 undergraduate students.

Dr. Atchison's passion is to provide opportunities for undergraduate education in the biomedical sciences coupled with research experiences aimed at underrepresented minority students. In collaboration with the University of Puerto Rico, he developed and established an NIH, NINDS-funded R25-Diversity Education grant that provides research experiences for Hispanic undergraduates, since 2005. Dr. Atchison makes annual visits to campuses of the University of Puerto Rico to recruit/interview students for the program. Many of these students have gone on to participate in SOT’s Annual Meeting by presenting their research. To date, 40 undergraduate students have received training through this program. Similarly, Dr. Atchison has received funding from Michigan State University’s College of Veterinary Medicine to initiate a smaller program for preveterinary students.

Dr. Atchison has been a very active member of SOT. He has served on the SOT Program Committee and as Secretary/Treasurer and then President of the Neurotoxicology Specialty Section. He is a recipient of the SOT AstraZeneca Traveling Lectureship, and at the SOT Annual Meeting, Dr. Atchison contributes yearly to the Undergraduate Education Program that serves underrepresented minority students.

The Society is proud to present Dr. Atchison with the 2014 SOT Undergraduate Educator Award.
2014 SPONSORED AWARD RECIPIENTS

**COLGATE-PALMOLIVE AWARDS FOR STUDENT RESEARCH TRAINING IN ALTERNATIVE METHODS**

Laura E. Armstrong, BS, University of Rhode Island, Kingston, RI

*Project Title:* Isolation and Culture of Mature Adipocytes to Study Induction of the Antioxidant Response in Dieting and Obesity

*Host Institution:* Boston Nutrition Obesity Research Center—Adipose Biology and Nutrient Metabolism Core (ABM), Boston University—Department of Medicine, Boston, MA

Christin M. Grabinski, MS, US Air Force Research Laboratory, Dayton, OH

*Project Title:* Design and Validation of Nanomaterial Aerosol Exposure Techniques for *In Vitro* Toxicology

*Host Institution:* University of Pennsylvania, Philadelphia, PA

**COLGATE-PALMOLIVE GRANTS FOR ALTERNATIVE RESEARCH**

Patricia E. Ganey, PhD, Michigan State University, East Lansing, MI

*Project Title:* Prediction of Idiosyncratic, Drug-Induced Liver Injury from Drug-Cytokine Interaction *In Vitro*

Matthew Troese, PhD, MB Research Laboratories, Spinnerstown, PA

*Project Title:* *In Vitro* Coculture Assay for Identification of Dermal Sensitizers

**COLGATE-PALMOLIVE POSTDOCTORAL FELLOWSHIP AWARD IN *IN VITRO* TOXICOLOGY**

Johathan H. Shannahan, PhD, University of Colorado, Aurora, CO

*Project Title:* *In Vitro* Assessment of Vascular Nanoparticle-Induced Toxicity: Implications for a Susceptible Human Subpopulation

**PFIZER SOT UNDERGRADUATE STUDENT TRAVEL AWARDS**

Wesley Cai, University of Arizona, Tucson, AZ

*Abstract Title:* Pentoxifylline Induces GSK-3-Independent Proteasomal Degradation of Cyclin D1 and Arrests Renal Cancer Cells in the G1 Phase

Cory V. Gerlach, Oregon State University, Corvallis, OR

*Abstract Title:* Mono-Substituted Isopropylated Triaryl Phosphate, a Major Component of Firemaster 550, Is an AhR Agonist That Exhibits AhR-Independent Toxicity

Lukas Gora, Michigan State University, East Lansing, MI

*Abstract Title:* NSAIDs Synergize with Inflammatory Cytokines to Kill Hepatocytes: Implications in Idiosyncratic Reactions
2014 SPONSORED AWARD RECIPIENTS

Elaine Kuo, Stanford University, Stanford, CA
Abstract Title: Effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) Exposure on the Expression of DNMT Genes during Development in Zebrafish (Danio rerio)
Institution Where Research Was Conducted: Woods Hole Oceanographic Institution

Virginia Mitchell, University of Utah, Salt Lake City, UT
Abstract Title: Differential Activation of Transient Receptor Potential Ankyrin-1 (TRPA1) by Diesel Exhaust Particulate Materials

Kia Z. Perez-Vale, University of Puerto Rico Arecibo, Arecibo, PR
Abstract Title: Effects of Methylmercury (MeHg) on mRNA Expression of Voltage Gated Calcium Channels (VGCCs) in Naïve and Differentiated F11 Cell
Institution Where Research Was Conducted: Michigan State University

Ricardo Rivera-Soto, University of Puerto Rico Arecibo, Arecibo, PR
Abstract Title: The Role of HIF-1 in regulating Cobalt-Induced Cytokine Expression in Alveolar Type II Cells
Institution Where Research Was Conducted: Michigan State University

Bradley Rowland, McMurray University, Abilene, TX
Abstract Title: Impact of Liposome-Induced Complement Activation on Tumor Growth and Angiogenesis
Institution Where Research Was Conducted: Texas Tech University Health Science Center

Kelly Schlotman, Purdue University, West Lafayette, IN
Abstract Title: Deregulation of miRNA-126 Expression in Developing Zebrafish Exposed to the Herbicide Atrazine

Jennette Shoots, Kenyon College, Gambier, OH
Abstract Title: An Aryl Hydrocarbon Receptor from the Salamander Ambystoma mexicanum Exhibits Low Responsiveness to 2,3,7,8-Tetrachlorodibenzo-p-Dioxin

Kelly VanDenBerg, Michigan State University, East Lansing, MI
Abstract Title: Inhibition of Early T Cell Cytokine Productions by Arsenic Occurs Independently of Nrf2

SYNGENTA FELLOWSHIP AWARD IN HUMAN HEALTH APPLICATIONS OF NEW TECHNOLOGIES

Dilshan S. Harischandra, BS, Iowa State University, Ames, IA
Project Title: Role of the Environmental Neurotoxicant Manganese in Cell-To-Cell Transmission on α-synuclein in Parkinson’s Disease

(continued to next page)
2014 Graduate Student Travel Support Recipients

Awards in the amount of $1,000 each were provided to graduate students in toxicology to support travel to the SOT 53rd Annual Meeting in Phoenix, Arizona.

Abdullah Al Maruf, University of Toronto
Cameron McElroy, University of Colorado AMC
Morgen Mhike, NIOSH-CDC
Michael Moses, University of Rochester Medical Center
Muna Nahar, University of Michigan
Pooja Naik, Texas Tech University Health Sciences Center
Carmen Ortiz-Sanchez, Ponce School of Medicine
Ademola Oyagbemi, University of Ibadan
Dhvani Parikh, University of Pittsburgh
Saroor Patel, Imperial College London
Michael Petriello, University of Kentucky
Orville Phillip, Southern University and A&M College
Caroline Pinto, University of Houston
Oluwakemi Rotimi, Covenant University
Deanna Salter, University of Rhode Island
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