

SOCIETY OF TOXICOLOGY  
**ENDOWMENT**  
**ANNUAL REPORT**  
2009–2010



**SOT** | Society of  
Toxicology  
**ENDOWMENT**  
*Investing in the Future ...*



*Investing in the Future  
of Toxicology*

# **FAMILY OF FUNDS**

## **GENERAL PURPOSE FUNDS**

Education  
International Activities  
SOT Priority Needs  
Student Travel

## **SPECIFIC PURPOSE FUNDS**

These funds match the interests of the donors with the future financial needs of SOT, its Regional Chapters (RC), Special Interest Groups (SIG), and Specialty Sections (SS).

Mary Amdur Student Award Fund  
Young Soo Choi Student Scholarship Award Fund  
Laxman S. Desai Association of Scientists of Indian Origin Student Award Fund  
Diversity Initiatives Fund  
John Doull Student Award Fund  
Founders Fund  
Angelo Furgiuele Young Investigator Technology Award Fund  
Perry J. Gehring Biological Modeling Student Award Fund  
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Perry J. Gehring Risk Assessment Student Award  
Harry W. Hays Memorial Fund  
Health and Environmental Science Institute Immunotoxicology Young Investigator Student Award Fund  
Vera W. Hudson and Elizabeth K. Weisburger Scholarship Fund  
Frank C. Lu Food Safety Student Award Fund  
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Roger O. McClellan Student Award Fund  
Harihara Mehendale Association of Scientists of Indian Origin Student Award Fund  
Metals Specialty Section Student Research Award Fund  
Molecular Biology Student Award Fund  
Pacific Northwest Toxicology Development Fund  
Emil A. Pfitzer Drug Discovery Student Award Fund  
Gabriel L. Plaa Education Award Fund  
Regulatory and Safety Evaluation Student Award Fund  
Renal Toxicology Fellowship Award Fund  
Robert J. Rubin Student Travel Award Fund  
Dharm V. Singh Association of Scientists of Indian Origin Student Award Fund  
Dharm V. Singh Carcinogenesis Award Fund  
Carl C. Smith Student Mechanisms Award Fund  
Ronald G. Thurman Student Travel Award Fund  
Toxicologists of African Origin Endowment Fund

# SOT 2010 ENDOWMENT FUND BOARD MESSAGE

## **In honor of the 50th Anniversary of SOT, the Endowment Fund has exceeded \$1 million in donations!**

Our thanks and deep appreciation to all the members and friends of the Society who have contributed to helping us exceed our initial contribution goal.

The number of Specific Purpose Funds has grown to 30 at the time of this printing.

Nearly all Funds have provided awardees (students or postdoctoral fellows) with travel funds to the 2009 and 2010 Annual Meetings.

The new goals established for the Endowment Fund Board are the growth of the four core dedicated General Purpose Endowment Funds, which are the:

- Education Fund;
- International Activities Fund;
- Student Travel Fund; and
- SOT Priorities Funds.

*Note: These funds are separate from the Society's general operating funds and may only be used for designated endowment purposes.*

Contributions to these Funds will continue to be matched until the \$750,000 in 50th Anniversary Matching Fund is exhausted.

*Please consider making a meaningful contribution to the Endowment Fund through the wide array of gifting options available, which include:*

Bequests;  
Charitable gift annuities; or  
Employment matching funds.

The Society underwrites the administrative expenses of the Endowment Fund ensuring that 100% of donations support the programs and awards.

**THANK YOU FOR YOUR COMMITMENT TO THE  
FUTURE OF TOXICOLOGY!!!**

***Consider a Specific Fund within the  
SOT Endowment as a gifting option—  
help build the financial future of the SOT!***

## SOT ENDOWMENT FUND OVERVIEW

The SOT Endowment Fund has a **mission** of assisting in advancing the science of toxicology by providing financial support for the Society's programs. The **vision** for the SOT Endowment Fund is to establish and increase in net worth a set of Endowment Funds that will provide significant, stable, long-term financial support that complements the Society's revenue from dues and other sources, to aid in achieving the Society's strategic objectives. Management of the Society's Endowment Fund is vested with an Endowment Fund Board. All actions related to the Endowment Fund originate with the Endowment Fund Board and are subject to ratification by the SOT Council. Responsibility for investing the assets of the SOT Endowment Fund is vested with the SOT Finance Committee with input from the SOT Endowment Fund Board. Additional information about the SOT Endowment Fund and history can be found at [www.toxicology.org/ai/csot/contribute.asp](http://www.toxicology.org/ai/csot/contribute.asp).

### A Family of Funds

The SOT Endowment Fund is in reality a home for multiple Endowment Funds established for different purposes and with contributions from multiple sources. There are General Purpose Funds (described below) and Specific Purpose Funds (described beginning on page 3). The General Purpose Funds are aligned with the long-term strategic objectives of the Society and provide resources to realize the vision established for the Fund.

### General Purpose Funds

When the General Purpose Funds were created, it was anticipated that they would soon attract sufficient contributions to be designated as Permanently Restricted Net Assets Funds—to be continued in perpetuity—and contributors to all the General Purpose Funds have reached that objective. Thus, judicious distributions from these funds are available to foster and bolster initiatives of importance to advancing the discipline of toxicology.

### Education

In the fast-paced world in which we live, we know that Education is essential to keeping scientists competitive, relevant and abreast of new and emerging knowledge. The Society's commitment to life-long learning is exemplified through an emphasis on continuing education and career development. Moreover, SOT has developed a solid program that helps to build for the future of toxicology. K–12 programs involve inquisitive minds in activities that pave the way to a career in the sciences. Graduate students and postdoctoral fellows are drawn to the SOT activities aligned with their interests and concerns, and opportunities abound for their involvement in leadership roles with SOT Committees, Regional Chapters, Specialty Sections, and Special Interest Groups. A new emphasis has been directed toward undergraduate students to assure that they are aware of the discipline of toxicology as an area they may wish to pursue because of its importance to human health and disease prevention. Proceeds from this fund will be used, at the discretion of the SOT Council, to enhance focused targets of opportunity for SOT's superb educational initiatives.

## International Activities

Although global awareness is part of the fabric of our daily life, resources are not always allocated so that activities can easily span continents and oceans. Today, one of every eight members of the SOT is from outside the U.S., attesting to the international nature of the Society. SOT continues to be a generous supporter of meetings and travel awards to ensure that both student and senior scientists have an opportunity to engage in forums that will help advance health and well being in developed and developing countries. No longer can one predict with assurance which continents will educate the next generation of toxicologists or offer a marketplace for their expertise. Funds are needed to assess and address the issues that regulatory and nongovernmental authorities must understand and manage as well as the known hazards and risks and unintended consequences of burgeoning technologies. Resources, including intellectual collaboration and financial support, are needed to encourage the adequate funding of science around the globe so that toxicology can help protect the health of humans and the environment. Proceeds from this Fund will be used, at the discretion of Council, to help the Society provide global leadership for advancing the science of toxicology.

### SOT Priority Needs

The Strategic Priorities below are the pillars that support the vision and mission of the Society:

- Increase Scientific Impact
- Advocate the Value of Toxicology
- Build for the Future of Toxicology
- Expand and Deepen Member Engagement
- Strengthen Organizational Effectiveness

The support of programs and activities to implement these objectives requires sufficient resources to address needs ranging from adequate research funding and fostering of the next generation to the importance of toxicological understanding to facilitate harmonization in a global marketplace. Fostering collaboration through the organization of meetings and forums, outreach to thought-leaders in the agencies and Congress, and active involvement in education and career development must be supported at levels significant to sustain SOT's leadership position. The proceeds from this Fund will be used to create a margin of excellence in advancing the priority needs and advancing the science of toxicology as identified by the SOT Council.

## Student Travel

Hundreds of students, many of them now leaders in SOT, attended their first SOT meeting with support provided by the Society. From the early days of SOT to the present, it has been understood that such participation is essential to “building for the future of toxicology.” There is no substitute for the excitement of being among the first to hear presentations of cutting-edge science delivered to a gathering of the best in the field. Likewise, the importance of engaging in face-to-face discussions with experts and peers in one’s field of interest cannot be underestimated. Such inspirational experiences encourage undergraduates to consider graduate training, graduate students to pursue postdoctoral training, and early career investigators to seek greater advances in applying the discipline of toxicology to human health and disease prevention. Moreover, those who have been under-represented in the sciences (primarily African American, Hispanic, and Native American, including Pacific Islanders) can gain first-hand exposure through programs such as the Undergraduate Education Program for minority students and their advisors at the SOT Annual Meeting. These examples demonstrate the great need for supporting student travel. The proceeds from this Fund, at the discretion of the SOT Council, can help meet that need on a targeted basis.

## 50<sup>th</sup> Anniversary Match for General Purpose Funds

To stimulate the growth of the SOT Endowment Fund, the Endowment Fund Board, the Finance Committee, and Council all took necessary steps in September 2007 to enable the use of unrestricted SOT funds to match donor contributions to the Endowment Fund. This “SOT 50th Anniversary Match” Program, as ratified by Council, was extended to donor contributions made from the inception of the SOT Endowment Fund in January 2006. Late in 2009, the SOT Council modified the matching of contributions to support the four General Purpose Funds, which include Education, International, Priorities, and Student Travel and all Funds for which the proceeds are designated to flow into the General Purpose Funds. The goal is to enhance these four Funds. The availability of the “SOT 50th Anniversary Match” allows donors to leverage their own contributions. An individual donor’s Recognition Level is based on the amount of the individual’s original contribution, exclusive of any match using SOT funds or an employer’s contribution.

## SPECIFIC PURPOSE FUNDS

**The Specific Purpose Funds** have been created as specified by the donor for specific purposes that are consistent with the long-term interests of the Society. The names of the Funds may reflect the purpose and/or may include the name of the donor (an individual, a family or an organization) or the name of an individual that a donor or group of donors would like to honor. The name and purpose of each Specific Purpose Fund must be approved by the Endowment Fund Board and ratified by the SOT Council. The selection of awardees for each fund is aligned with an SOT Committee, Specialty Section, or Special Interest Group. Current Specific Purpose Funds are briefly described herein. Additional information is available at [www.toxicology.org/ai/csot/contribute.asap](http://www.toxicology.org/ai/csot/contribute.asap).

The number of Specific Funds within the SOT Endowment Fund has steadily grown since the creation of the Endowment in early 2007. We now have 30 Specific Purpose Funds, 24 of which are designated as Permanently Restricted. The individual Specific Purpose Funds are listed below in alphabetical order.

### Mary Amdur Student Award Fund

*(Fund Established October 2007)*

This Fund was created by students and colleagues of the late Mary Amdur to memorialize her substantial contributions to the science of inhalation and respiratory toxicology and to encourage students to pursue careers in this field. The Amdur Student Award Fund, aligned with the SOT’s Inhalation and Respiratory Specialty Section, is used to provide stipends accompanying the student awards of the Inhalation and Respiratory Specialty Section.

Mary Amdur, a recipient of the SOT’s prestigious Merit Award, was a pioneer in conducting research to understand the effects of exposure to airborne sulfur dioxide and sulfate aerosols.



**Dr. Mehdi S. Hazari** is a 2010 recipient of the Mary Amdur Student Award for his scientific work entitled, “Dobutamine Cardiac ‘Stress’ Test Reveals Increased Arrhythmia Risk in Conscious Rats After a Single Exposure to Acrolein.” Dr. Hazari works at the Environmental Public Health Division of the U.S. Environmental Protection Agency and hopes to use novel physiology approaches to show how air pollution sensitizes the cardiovascular system to adverse responses.



**Mr. Eric N. Liberda** is a 2010 recipient of the Mary Amdur Student Award for his scientific paper entitled, “The Effects of Concentrated Ambient Particles and Nickel Nanoparticles on Endothelial Progenitor Cell Number and Function.” Mr. Liberda works at the Department of Environmental Medicine at New York University and hopes to play a role in developing policies relating to health and pollution. His areas of interest include stem cells, cardiovascular, and nanoparticle toxicology.

## Young Soo Choi Student Scholarship Award Fund

*(Fund Established July 2008)*

The Young Soo Choi Student Scholarship Award Fund was initiated with a generous gift from Young Soo Choi. Proceeds from the Fund are used to provide a scholarship for graduate training in toxicology to a Korean student (having been born in Korea or, if born in the United States, having one or more parents of Korean descent). The Scholarship will serve to memorialize the commitment of Young Soo Choi to higher education and her contributions to the field of toxicology.



**Mr. Do Hyung Kim** is the 2010 recipient of the Young Soo Choi Student Scholarship Award for his scientific paper entitled, "Methyl-T-Butyl Ether Effects on Male Rat Reproductive Steroid Hormones and Aromatase mRNA."

Mr. Kim is a graduate student at San Diego State University who hopes to become an "open-minded" educator who listens to the public needs and advances the future direction of toxicology in the 21st century.

## Laxman S. Desai Association of Scientists of Indian Origin Student Award Fund

*(Fund Established January 2009)*

The Laxman S. Desai Association of Scientists of Indian Origin (ASIO) Student Award Fund was initiated with a generous gift from Laxman S. Desai. The Fund provides support for awards that encourage graduate students and postdoctoral fellows, who are of Indian origin, to pursue advanced studies in the field of toxicology. Proceeds from the Fund are used to cover travel expenses to the SOT Annual Meeting or best paper awards based on abstracts accepted for the SOT Annual Meeting. Dr. Desai has had a distinguished career as a scientist and businessman. He was born in India and received his university training in toxicology/pharmacology in Belgium. He immigrated to the United States in 1967.



**Mr. Arunkumar Asaithambi** is the 2010 recipient of the Laxman S. Desai ASIO award for his research poster entitled, "Positive Modulation of the Novel Anti-Apoptotic Kinase PKD1 Can Protect Dopaminergic Neurons Against Oxidative Damage in Parkinson Disease Models."

Mr. Asaithambi is a student at Iowa State University.

## Diversity Initiatives Fund

*(Fund Established January 2009; there was no Awardee in 2010.)*

The Diversity Initiatives Fund was created to provide proceeds for enhancing the strategic growth initiatives of the Society of Toxicology aimed at increasing and retaining individuals from groups under represented in the field of toxicology. The Fund, aligned with the Committee on Diversity Initiatives, has been designated as a Permanently Restricted Net Asset Fund and will be continued in perpetuity. Creation of the Fund enables contributors who have a special interest in SOT's diversity initiatives, including past participants in the programs, to provide financial support for future diversity activities.

Initiatives may include, but will not be limited to: (a) funding more students to attend the flagship annual Undergraduate Education Program for Minority Students; (b) funding to allow students to extend their stay at the Annual Meeting longer than two nights and be able to attend more scientific sessions; and (c) broadening and deepening the outreach of institutional enrollment of under represented individuals.

## John Doull Student Award Fund

*(Fund Established March 2010; there was no Awardee for 2010, but funds are available for an award in 2011.)*

This Fund was created to honor Dr. John Doull, a Charter member of the SOT, the SOT's 26th President (1986–1987), and the first recipient of the SOT Endowment Fund Founders Award (2008). The fund was initiated by Dr. Dennis Paustenbach and is aligned with the Risk Assessment Specialty Section. Proceeds will provide annual awards to graduate students or postdoctoral fellows for their research abstracts at the SOT Annual Meeting relating to Health Risk Assessment. The Award recipients will be selected by the Risk Assessment Specialty Section.

Dr. Doull's illustrious career in toxicology spanned more than 50 years of productive contributions to teaching, research, and the application of toxicological principles to safety evaluation in the support and enhancement of public health. Particularly noteworthy has been his leadership in promulgating a most authoritative source of toxicology principles presented in the serial publication of *Casarett and Doull's Toxicology: The Basic Science of Poisons*. Furthermore, he has advanced the fields of safety evaluation of chemicals and health risk assessment through his formal participation in numerous national and international authoritative groups including those of the National Academy of Sciences/National Research Council, the International Life Sciences Institute, and the National Institutes of Health.

## Founders Fund

*(Fund Established September 2007)*

The Founders Fund was created to recognize the uniquely valuable contributions of those professionals who organized and devoted their creative energies and time to the establishment of this Society and whose vision provided the foundation for vital contributions aimed at the protection of public health worldwide. The Founders Fund was initiated with financial contributions from individual members of the Society of Toxicology whose careers were shaped in large measure by the vision and professional contributions of the Society's founders. Proceeds from the Founders Fund are used to provide a cash stipend to be given to the recipient of the SOT Founders Award selected annually by the SOT Awards Committee.



**Dr. James S. Bus, Ph.D.** is the recipient of the SOT 2010 Founders Award and is the Director of External Technology, Toxicology, and Environmental Research and Consulting at The Dow Chemical Company. He has demonstrated "outstanding leadership in fostering the role of toxicological sciences in

safety decision-making through the development and/or application of state-of-the-art approaches that elucidate, with a high degree of confidence, the distinctions for humans between safe and unsafe levels of exposures to chemical and physical agents."

Dr. Bus, distinguished in toxicology research and its application in safety assessment, has held leadership positions on such boards as the National Academy of Sciences Board of Environmental Sciences and Toxicology, the ILSI Health and Environmental Sciences Institute, and the Toxicology Forum, to name a few. He has served as President of the Society of Toxicology and the American Board of Toxicology. He received the Society of Toxicology Achievement Award (1987) for his outstanding contributions to the science of toxicology.

Dr. Bus' research interests include mechanisms of oxidant toxicity, defense mechanisms to chemical toxicity, relationships of pharmacokinetics to expression of chemical toxicity, and general pesticide and industrial chemical toxicology. He has constantly pushed the science of toxicology to improve and expand the application of the best toxicological data into regulatory decisions and worked to ensure that state-of-the-art approaches are applied in making those decisions.

## Angelo Furgiuele Young Investigator Technology Award Fund

*(Fund Established July 2008; there was no Awardee in 2010 and the Fund will not be eligible to make an award in 2011.)*

The Angelo Furgiuele Young Investigator Technology Award Fund, created with a generous gift from Angelo and Christine Furgiuele, is aligned with the Reproductive and Developmental Specialty Section. The Fund will be used for an Award to be presented to a Young Investigator to purchase technological enhancements such as computer hardware, software or analytical equipment that will facilitate the conduct of reproductive and developmental toxicology research by the Award Recipient.

The first Angelo Furgiuele Award will be given after the Fund has achieved assets of \$25,000 and, thus, recognition as a Permanently Restricted Net Asset Fund.

## Perry J. Gehring Biological Modeling Student Award Fund

*(Fund Established July 2008)*

This Fund, established with initial generous contributions from the family of the late Perry J. Gehring and his long-time friends, Joe and Teri LeBeau, honors the legacy of Perry J. Gehring and encourages students to pursue careers that utilize biological modeling to advance the science of toxicology. The Fund is aligned with the Biological Modeling Specialty Section.



**Dr. Sheppard A. Martin** is a 2010 recipient of the Perry J. Gehring Biological Modeling Student Award.



**Mr. Marc-André Verner** is a 2010 recipient of the Perry J. Gehring Biological Modeling Student Award for his scientific work entitled, "Unveiling Associations Between Lactational Exposure to Polychlorinated Biphenyls (PCBs) and Infant Neuro-Development: Use of PBPK Modeling vs. Traditional Exposure Metrics."

Mr. Verner is a Ph.D. candidate at the Université du Québec a Montréal. He hopes to continue to work in toxicology by bringing people from different fields together and to introduce PBPK modeling to the field of epidemiology to create some interesting research opportunities.

## Perry J. Gehring Diversity Student Travel Award Fund

(Fund Established July 2008)

This Fund was created to honor the legacy of Perry J. Gehring and to encourage students from ethnic groups under represented in toxicology (African American, Hispanic, Native American, or Pacific Islander) to pursue careers in toxicology. The Fund is used to provide proceeds to assist the Award Recipient(s) in their participation in the Annual Meeting of the SOT. The Committee on Diversity Initiatives selects students as award recipients based on merit and potential for achieving excellence as a graduate student and, ultimately, as a member of the scientific community.



**Ms. Nygerma Dangleben** is the 2010 recipient of the Perry J. Gehring Diversity Student Travel Award for her abstract entitled, "Investigating Beta-Defensin-1 Down-Regulation in Arsenic Toxicity." Her research further explores recently published findings from her lab of decreased levels of urinary beta defensin-1 peptides in men

exposed to arsenic in drinking water in two case-control populations based in Nevada and Chile.

Ms. Dangleben is a graduate student at the University of California, Berkeley and hopes to help formulate an agenda for research, education and public awareness of toxic substances and propose preventative measures and alternative chemicals that are less harmful.

## Perry J. Gehring Risk Assessment Student Award Fund

(Fund Established July 2008)

This Fund, created to honor the legacy of Perry J. Gehring and to encourage students to pursue careers that utilize modern toxicological science in risk assessment, is aligned with the Risk Assessment Specialty Section. The Fund, established with initial generous gifts from Barbara Gehring and children, and Joe and Teri LeBeau, to memorialize Perry J. Gehring's contributions to toxicology, is used to provide stipends to student recipients of awards given for excellence in Risk Assessment.

Perry Gehring, who served as President of the SOT (1980–1981), had a distinguished career as a toxicologist and also was a pioneer in advancing the science of risk-based decision making.



**Dr. Anne E. Loccisano** is a 2010 recipient of the Perry J. Gehring Risk Assessment Student Award for her abstract entitled, "Development of a Rat Gestation PBPK Model for PFOA/PFOS."

Dr. Loccisano is a postdoctoral fellow at the Hamner Institutes for Health Sciences in Research Triangle Park, North Carolina, who hopes to apply and advance computational methods. As a computer modeler, she will incorporate *in silico* and *in vitro* data in model development and apply PBPK models for human health risk assessment.



**Mr. Kun Lu** is a 2010 recipient of the Perry J. Gehring Risk Assessment Student Award for his scientific paper entitled, "Distribution and Molecular Dose of Inhalation-Derived and Endogenous Formaldehyde DNA Adducts Support Causation of Nasal Carcinoma But Not Leukemia."

Mr. Lu is a graduate student in the Department of Environmental Sciences and Engineering at the University of North Carolina at Chapel Hill. He hopes to become an independent researcher so that he can continue his work in toxicology and environmental health science and improve our understanding of human health and environmental risks associated with hazardous chemicals.

## Harry W. Hays Memorial Fund

(Fund Established May 2009)

The Harry W. Hays Memorial Fund, established in the memory of Harry W. Hays, will be used to further the objectives of either or both the Society's Education Fund or SOT Priority Needs Fund, as determined by the SOT Council (and, as feasible, be identified as having been funded by the Harry W. Hays Memorial Fund). Contributions to this Fund will be matched until the 50th Anniversary Matching funds have been fully utilized.

Dr. Hays, a founder of the Society of Toxicology and the Society's fourth President (1964–1965), played a vital role in documenting the history of the Society through its first 25 years. In 1961, on the occasion of the founding of the Society, Dr. Hays foresaw promise ahead, both for toxicology as a learned profession and for the Society as a body of scientists of widely diverse interests working together for the advancement of the science of toxicology and the promotion of a better and safer environment.

## Health and Environmental Science Institute Immunotoxicology Young Investigator Student Award Fund

*(Fund Established July 2008)*

This Fund, created in July 2008 with an initial generous gift from the International Life Sciences Institute—Health and Environmental Sciences Institute and intended to advance the education and training of young investigators in the field of Immunotoxicology, is aligned with the Immunotoxicology Specialty Section.

The Fund is used to provide travel stipends to meritorious applicants to assist in Awardees attending and participating at the Annual Meeting of the Society of Toxicology.



**Dr. Megumi Maeda** is the 2010 recipient of the Health and Environmental Science Institute Immunotoxicology Young Investigator Student Award Fund for her abstract entitled, “Functional Analysis of Human CD4+T Cells with Decreased CXCR3 Expression by Long-Term Low-Level Exposure to Asbestos.”

Dr. Maeda works in the Department of Hygiene at the Kawasaki Medical School in Japan and hopes to continue to present her work at the SOT Annual Meetings.

## Vera W. Hudson and Elizabeth K. Weisburger Scholarship Fund

*(Fund Established October 2007)*

The Vera W. Hudson and Elizabeth K. Weisburger Scholarship Fund was created with a generous gift from Elizabeth K. Weisburger, a long-time member of the SOT. Elizabeth created the Fund to honor the memory of her deceased long-time friend and professional associate, Vera W. Hudson. Vera was a biologist and information specialist at the National Library of Medicine (NLM) for many years, she had an important role in developing the NLM Hazardous Substances Data Bank and other sources of toxicology information on chemicals. Proceeds from the Vera W. Hudson and Elizabeth K. Weisburger Fund will be used to fund scholarships for individuals, with preference to women, pursuing graduate studies in Toxicology. Elizabeth has also purchased a Charitable Gift Annuity, see description below, with the Vera W. Hudson and Elizabeth K. Weisburger Scholarship Fund named as the beneficiary. The Scholarship Fund is open to receive contributions from other donors who would like to honor Vera and Elizabeth and encourage women in the field of toxicology.



**Ms. Natalie Malek Johnson** is the 2010 recipient of the Vera W. Hudson and Elizabeth K. Weisburger Award for her scientific work entitled, “Association Between Tortilla, Peanut and Rice Consumption and Urinary Aflatoxin M1 Levels in a U.S. Population With An Elevated Incidence of Liver Cancer.”

Ms. Johnson is a student at Texas A&M University, whose work has focused on measuring biological markers of exposure to food-borne and environmental carcinogens in human populations in Ghana and the U.S. and implementing interventions to diminish dietary exposure to aflatoxins. She hopes to conduct translational research related to toxic effects of various exposures in human populations and expand her knowledge to exposure science and molecular epidemiology.

## Frank C. Lu Food Safety Student Award Fund

*(Fund Established November 1998)*

This Fund, aligned with the Food Safety Specialty Section, was created with an initial generous contribution from Frank C. Lu, a Charter member of the SOT. The Fund is used for the stipends that accompany students’ Food Safety Specialty Section awards, which serve to foster the interest of students in food safety issues.



**Dr. Alicia Marroquin-Cardona** is the 2010 recipient of the Frank C. Lu Food Safety Student Award for her meritorious abstract entitled, “Evaluation of Aflatoxin B1 Adsorption Capacity of Edible Clays from the Marketplace in Ghana.”

Dr. Marroquin-Cardona is a graduate student at Texas A&M University who hopes to help bridge the gap between scientists and the general public by holding coffee talks in Monterrey, Mexico, once she graduates.

She also wants to pursue funding in Mexico to bring students to the United States so they can attend the SOT Annual Meeting.

## Jean Lu Student Scholarship Award Fund

*(Fund Established July 2008)*

The Jean Lu Student Scholarship Award Fund, established with an initial generous gift from Dr. Frank C. Lu, a Charter member of the SOT, in memory of his wife, Jean Lu, is aligned with the American Association of Chinese in Toxicology.

The Fund was created to provide a lump sum scholarship each year to a Chinese student (having been born in China or, if born in the United States, having one or more parents of Chinese descent), who is interested in graduate training in toxicology.



**Mr. Haitian Lu** is the 2010 recipient of the Jean Lu Food Safety Student Award for his scientific paper entitled, "Characterization of TCDD Effect on the CD40L-Induced IgM Antibody Responses in Primary Mouse and Human B Cells."

Mr. Lu is a fourth year Ph.D. candidate from Michigan State University and has developed a model to assess the effect of dioxin compounds on the humoral immunity using B lymphocytes isolated from human peripheral blood. His goal is to apply the best toxicology to address real human health risk and ensure the safety of future products.

### Roger O. McClellan Student Award Fund

*(Fund Established October 2007)*

This Fund was created with an initial generous gift from Roger and Kathleen McClellan to encourage individuals trained in veterinary medicine to pursue careers in biomedical research including comparative toxicology and pathology. Proceeds from the Fund will provide cash stipends to award recipients selected on the basis of the scientific merit of papers proposed for presentation at the SOT Annual Meeting. Special consideration will be given to research on the role of comparative medicine in evaluating the safety/risk of exposure to chemicals or physical agents.



**Dr. Yogesh Saini** is the 2010 recipient of the Roger O. McClellan Student Award for his paper entitled, "Hypoxia Inducible Factor 1 $\alpha$  Modulates Cobalt-Induced Acute Lung Inflammation."

Dr. Saini is a Postdoctoral Research Associate at the University of North Carolina, Chapel Hill, who hopes to pursue his work to better understand molecular mechanisms and underlying health problems caused by environmental pollutants.

### Harihara Mehendale Association of Scientists of Indian Origin Student Award Fund

*(Fund Established July 2008)*

This Fund, created with an initial generous gift from Harihara and Rekha Mehendale, is used to provide Award(s) that will encourage graduate students and postdoctoral fellows, who are individuals of Indian origin, to pursue advanced studies in the field of toxicology. The Fund is aligned with the Association of Scientists of Indian Origin (ASIO) Special Interest Group.



**Ms. Indira Devi Jutooru** is the 2010 recipient of the Harihara Mehendale Association of Scientists of Indian Origin Student Award, for her work entitled, "Arsenic Trioxide Downregulation of Specificity Protein (SP) Transcription Factors in Bladder Cancer Cells is Dependent on Reactive Oxygen Species (ROS)."

Ms. Jutooru is a graduate student at Texas A&M University, whose work is focused on the chemotherapeutic effectiveness of arsenic trioxide in solid tumors such as bladder cancer.

She hopes to develop chemotherapeutics with lowered toxicity that can help patients with various cancers.

### **NEW** Metals Specialty Section Student Research Award Fund

*(Fund Established October 2009; there was no Awardee for 2010 and will not be eligible to make an award in 2011.)*

The Metals Specialty Section Student Research Award Fund was created by a group of SOT members who have actively conducted and communicated research on metals action and toxicity for many years. The Fund will be used for research awards given to graduate students and postdoctoral fellows for excellence in mechanistic research of metals toxicity at the SOT Annual Meeting.

### Molecular Biology Student Award Fund

*(Fund Established October 2007)*

This Fund, created with a generous gift from Thomas R. Sutter when he was Vice President of the Molecular Biology Specialty Section, provides cash stipends to accompany student awards given by the Specialty Section at each SOT Annual Meeting.

The Fund is aligned with the Molecular Biology Specialty Section, which selects Award recipients based on their scientific merit.



**Ms. Jill Franzosa** was the first place recipient of the 2010 Molecular Biology Specialty Section Student Research Award for her work entitled, "Developmental Regulation of Retinoic Acid Signaling: Teratogenic Role of MicroRNAs."

Ms. Franzosa is a Ph.D. candidate in the Department of Environmental and Molecular Toxicology at Oregon State University, whose research involved the role of a family of microRNAs in regulating RA signaling during vertebrate embryonic axis development.

She would like to play a role in advancing toxicology by continuing work in high throughput models and systems.



**Mr. Raymond Lo** is the second place recipient of the 2010 Molecular Biology Specialty Section Student Research Award for his work entitled, “Genomic Analysis of Dioxin-Dependent Recruitment of AHR to Promoter Regions in Mouse Liver.”

Mr. Lo is a Ph.D. candidate in the Department of Pharmacology and Toxicology at the University of Toronto in Canada, whose research involved describing a systematic and relatively unbiased approach to identify all the AHR recruitment regions on a genomic scale.

He hopes to apply the genome-wide experiments to screen for potential toxic pathways of any toxicants people might face in the future.



**Ms. Lauren Mordasky Markell** is the third place recipient of the 2010 Molecular Biology Specialty Section Student Research Award for her work entitled, “Pharmacological Inhibition of TGFbeta-1 Signaling Enhances Malignant Progression of Chemically Induced Skin Cancers Through Changes in Inflammatory Response.”

Ms. Markell is a Ph.D. candidate at Penn State University, whose research involved using a model of skin cancer to determine how a pharmaceutical agent alters tumor formation and malignant conversion.

She hopes to advance the science of toxicology by helping people make better choices about their daily exposures and ensuring the safety of skin products.



**Dr. Melissa Barhoover** is one of three recipients who tied for the 2010 Molecular Biology Specialty Section Postdoctoral Fellow Research Award, for her abstract entitled, “The AHR Regulates Cell Cycle Progression in Human Breast Cancer Cells via a Functional Interaction with CDK4.”

Dr. Barhoover is a postdoctoral fellow at the Hamner Institutes for Health Sciences, whose research results demonstrated an interaction between the aryl hydrocarbon receptor (AHR) and cyclin dependent kinase 4. After exposing human breast cancer cells to TCDD, an environmental contaminant, this AHR: CDK4 protein interaction is decreased in conjunction with arrest of the cells in the G1phase of the cell cycle.

She hopes to develop new *in vitro* tests that will provide more information about the modes and mechanisms of action of environmental agents.



**Dr. Tamara Tal** is a recipient of the 2010 Molecular Biology Specialty Section Postdoctoral Fellow Research Award for her abstract entitled, “The Developmental Neurotoxicity of microRNAs: Neurotoxicant-Induced Defects in Motor Neuron Axon Guidance and Behavior.”

She is an NIEHS postdoctoral fellow in the Department of Environmental and Molecular Toxicology at Oregon State University. Her research addresses an important data gap in understanding the neurobehavioral function of

microRNAs by defining the role of microRNAs in orchestrating adverse gene-environment interactions resulting in developmental neurobehavioral deficits in zebrafish.



**Dr. Peili Yao** is a 2010 recipient of the Molecular Biology Specialty Section Postdoctoral Fellow Research Award for her work entitled, “MEHP-Induced Disruption of Junctional Complexes in the Seminiferous Epithelium of the Rodent Testis is Mediated by MMP-2.”

Dr. Yao is a postdoctoral fellow at the College of Pharmacy at the University of Texas at Austin. She hopes her research will help in making a significant breakthrough toward understanding the molecular basis of different pathways in male reproductive malformations, thus providing a better way to diagnose, treat, and prevent disease.

### **NEW Pacific Northwest Toxicology Development Fund**

*(Fund Established December 2009; there was no Awardee for 2010 and the Fund will not be eligible to make an award in 2011.)*

This Fund was created by a group of donors and the Pacific Northwest Chapter Executive Committee (PNCEC). Proceeds from this Fund will be used to support three discrete objectives designed to provide development opportunities and professional recognition of toxicologists within the Pacific Northwest Chapter. The three objectives are 1) to foster student engagement, 2) to create special educational programs, and 3) to recognize outstanding achievement by Pacific Northwest regional toxicologists.

The PNCEC will be responsible for identifying one or more objectives to be supported each year and for developing detailed criteria for nomination and selection of the award recipients, including the organization of award selection committee(s). The PNCEC is not obligated to commit Fund proceeds to each of the stated objectives each year, nor is there a requirement to achieve a balance of expenditures between the three objectives on an annual basis or over time.

## Emil A. Pfitzer Drug Discovery Student Award Fund

(Fund Established January 2008)

This Fund, honoring the legacy of Emil A. Pfitzer, encourages students to apply modern toxicological science in the field of drug discovery and is aligned with the Drug Discovery Specialty Section. The Fund, created with initial generous contributions from Hoffmann-LaRoche, the Research Institute for Fragrance Materials (RIFM) and the family and friends of Emil Pfitzer, is used for awards to well-qualified students applying modern toxicology to enhance the discovery of new drugs and ensuring their safety. The awards are given based on the quality of scientific papers proposed for presentation at the SOT Annual Meeting, and the need for financial assistance for travel to participate in SOT meetings. Special consideration will be given to research on the role of comparative medicine in evaluating the safety/risk of exposure to chemicals or physical agents.



**Mr. Arunkumar Asaithambi** is the first place student recipient of the 2010 Emil A. Pfitzer Drug Discovery Student Award for his work entitled, "Positive Modulation of the Novel Anti-Apoptotic Kinase PKD1 Can Protect Dopaminergic Neurons Against Oxidative Damage in Parkinson's Disease Models."

Mr. Asaithambi is a graduate student at Iowa State University who hopes to develop futuristic methods to advance the science of toxicology in the 21st century.



**Dr. Peter Bui** is a second place postdoctoral recipient of the 2010 Emil A. Pfitzer Drug Discovery Student Award for his research entitled, "Human Cytochrome P450 2S1 Is Enable to Utilize Fatty Acid Hydroperoxides to Support Benzo[a]pyrene-7,8-Dihydrodiol's Bioactivation."

Dr. Bui is a postdoctoral fellow at the University of California in Los Angeles.



**Dr. David Castro** is a first place postdoctoral recipient of the 2010 Emil A. Pfitzer Drug Discovery Student Award for his scientific paper entitled, "Chemical Genetic Approaches to Elucidate Key Signaling Pathways for the Differentiation of a Mammary Cancer Stem Cell."

Dr. Castro is employed at the Sanford-Burnham Medical Research Institute and hopes to continue to play in the role in advancing toxicology in the 21st century.

He wants to expand knowledge of stem cells by identifying signaling pathways important in self-renewal and differentiation, thus potentially introducing a new therapy that will focus on directing the fate of these cells.



**Dr. Harriet Kamendi** is a third place postdoctoral recipient of the 2010 Emil A. Pfitzer Drug Discovery Student Award for her work entitled, "Multi Compartmental PK-KD Modeling of Baclofen."

Dr. Kamendi is employed by AstraZeneca Pharmaceuticals and hopes to play a significant role in translating basic science to real life clinical applications by developing better predictive biomarkers of safety in preclinical studies that translate to safety endpoints in patients.

**Ms. Christina Powers** is a second place student recipient of the 2010 Emil A. Pfitzer Drug Discovery Student Award for her scientific work entitled, "Developmental Neurotoxicity of Silver Nanoparticles in PC12 Cells."

Ms. Powers is a student at Duke University investigating whether silver nanoparticles impair neurodevelopment in ways similar to monovalent silver in a standard cell model. She hopes to use her background in research to strengthen the bridges between scientists making critical discoveries in toxicology and those striving to make meaningful public policy decisions based on these findings.

**Ms. Sumitra Sengupta** is a third place student recipient of the 2010 Emil A. Pfitzer Drug Discovery Student Award for her scientific paper entitled, "The Cryptic Story of Glucocorticoids."

Ms. Sengupta is a student at Oregon State University.



## Gabriel L. Plaa Education Award Fund

(Fund established December 2009; there was no Awardee for 2010 but funds will be available for a 2011 award.)

This Fund, created by a former student, Dr. Curt Klaassen, memorializes Dr. Plaa's contributions in toxicology, his leadership, mentorship, and friendship. The Fund will focus on providing cash stipends to Award recipients selected on the basis of the scientific merit of papers proposed for presentation at the Annual Meeting by post-graduate students of toxicology. The Plaa Award will be aligned with the Mechanisms Specialty Section, which will select award recipients based on the scientific quality of an abstract in mechanistic toxicology accepted for presentation at an SOT Annual Meeting.

Dr. Gabriel (Gabbie) L. Plaa (1930–2009) played a significant role in the education of graduate and post-graduate students in toxicology and made outstanding contributions to applying mechanistic toxicology to the area of chemical-induced liver injury during his career. Dr. Plaa was the SOT President (1983–1984), editor of *Toxicology and Applied Pharmacology* (1972–1980), and a recipient of numerous SOT Awards: Achievement (1967), Arnold J. Lehman (1981), Education (1987) and Merit (1996). His influence in training toxicologists was truly extraordinary and many of his former students have also had leadership roles and received awards from the SOT.

## Regulatory and Safety Evaluation Student Award Fund

*(Fund Established October 2007; there was no Awardee in 2010 and the Fund will not be eligible to make an award in 2011.)*

The Regulatory and Safety Evaluation Specialty Section is developing this Fund to support stipends to accompany student awards given by the Specialty Section at the SOT Annual Meeting. This Fund will become Temporarily Restricted if it does not achieve \$25K in contributions and its proceeds can be used during the next 10 years to fund awards within the Regulatory and Safety Evaluation Specialty Section.

## Renal Toxicology Fellowship Award Fund

*(Fund Established December 2008)*

The Renal Toxicology Fellowship Award Fund was established by a group of SOT members who have actively conducted research on the mechanisms of renal toxicity for many years and who are interested in fostering the continued advancement of the field of renal toxicology through mechanistic research; thus, the awardees are selected by the Mechanisms Specialty Section. The Fund is used to provide stipends for students and postdoctoral fellow recipients for excellence in understanding mechanisms of renal toxicity and to encourage students and postdoctoral fellows within the first three years of training to conduct research in this field.



**Dr. Jennifer Cohen** is the second place 2010 recipient of the Renal Toxicology Fellowship Award for her research entitled, "cAMP-Dependent Pathway(s) Directs the Rap-GTP/B-Raf MAPK-Mediated Cytosolic Mislocalization of p27kip-cyclin D1 in Renal Cancer."

Dr. Cohen is currently a postdoctoral fellow at Hoffmann-La Roche Inc., working on development of human embryonic stem cell (hESC) and induced pluripotent stem cell derived cardiomyocytes as a toxicology tool. She hopes to further the knowledge of critical signaling molecules involved in the differentiation of hESCs to cardiomyocytes.



**Ms. Xiaoling Zhang** is the first place recipient of the 2010 Renal Toxicology Fellowship Award for her work entitled, "Bromate Induces Renal Cell Cycle Arrest via DNA Damage-Dependent and Independent Pathways."

Ms. Zhang is a Ph.D. candidate at the University of Georgia whose work examines bromate, which is one of the water disinfection byproducts that has been reported to induce kidney cancer in rats. She is investigating the cellular and molecular mechanisms of bromate-induced renal toxicity.

She hopes to become a faculty member at a university as a way to advance the science of toxicology in the 21st century.

## Robert J. Rubin Student Travel Award Fund

*(Fund Established July 2008)*

The Robert J. Rubin Student Travel Fund, created by an initial generous gift from Mark Montgomery, a former student of Professor Rubin's, is used to provide travel awards to one or more graduate students to participate in the SOT Annual Meeting. Recipients of the Rubin Award are selected by a Committee jointly appointed by the leadership of the Mechanisms Specialty Section and the Risk Assessment Specialty Section. Award recipient(s) are selected based on the scientific quality of an abstract for presentation that applies mechanistic toxicology to risk assessment and that has been accepted for presentation at an SOT Annual Meeting.



**Dr. David Szabo** is the 2010 recipient of the Robert J. Rubin Student Travel Award for his paper entitled, "Toxicokinetics Differences Between Two Major HBCD Stereoisomers: Effect of Dose, Time, Repeated Exposure and Route."

Dr. Szabo is in toxicology at the University of North Carolina at Chapel Hill. He would like to be part of the movement to transition toxicology from a predominantly observational science to a predictive one focused on mechanism-based biological observations.

He also would like to advance the science as a spokesperson and ambassador for evidence- and science-based safety assessment.

## Dharm V. Singh Association of Scientists of Indian Origin Student Award Fund

*(Fund Established February 2008)*

This Fund, created with a generous gift from Dharm V. Singh, is used to provide awards to students of Indian Origin and encourage them to pursue a career in toxicology and is aligned with the Association of Scientists of Indian Origin (ASIO) Special Interest Group.

Dharm V. Singh, a distinguished toxicologist with three decades of service at the U.S. Environmental Protection Agency, has provided leadership for the development and growth of the ASIO Special Interest Group. He has a long-standing interest in encouraging students of Indian origin to enter the field of toxicology. The Fund, now having assets of \$25,000, qualifies as a Permanently Restricted Net Asset Fund that will be continued in perpetuity.



**Dr. Mayurranjan S. Mitra** is the 2010 recipient of the Dharm V. Singh Association of Scientist of Indian Origin Student Award for the scientific paper entitled, "Down-Regulation of Myocardial Lipin 1 Gene Expression by Lipopolysaccharide (LPS) is not Rescued by PGC-1 $\alpha$  Overexpression."

Dr. Mitra is a postdoctoral Research Associate at Washington University.

### Dharm V. Singh Carcinogenesis Award Fund

*(Fund Established April 2009)*

The Dharm V. Singh Carcinogenesis Awards Fund was created by Dharm Singh's contribution in memory of his wife, Sita Singh, to encourage students and postdoctoral fellows to pursue careers in research leading to a better understanding of the causes, improved diagnosis, and treatment of cancer.

The Fund, aligned with the Carcinogenesis Specialty Section, provides significant stipends to students and postdoctoral fellow recipients of awards given for excellence in understanding carcinogenesis. The Carcinogenesis Specialty Section is responsible for identifying the number of awards given each year, the detailed selection criteria for the award recipients, the recipient(s) selection and bestowing the awards at the SOT Annual Meeting.

The initial contribution and associated matching funds resulted in the Fund having assets of \$25,000, qualifies as a Permanently Restricted Net Asset Fund to be continued in perpetuity.



**Ms. Lauren Mordasky Markell** is the 2010 recipient of the Dharm V. Singh Carcinogenesis Award for her scientific paper entitled, "Pharmacological Inhibition of TGF $\beta$ 1 Signaling Enhances Malignant Progression of Chemically Induced Skin Cancers through Changes in Inflammatory Response."

Ms. Markell is a student of Pennsylvania State University, whose research involved the use of a skin cancer model to determine how a pharmaceutical agent alters tumor formation and malignant conversion.

She hopes to advance the science of toxicology by helping people make better choices about their daily exposures and ensure the safety of skin products.

### Carl C. Smith Student Mechanisms Award Fund

*(Fund Established March 1983)*

This Fund, aligned with the Mechanisms Specialty Section and predating the initial establishment of the SOT Endowment Fund, has served in many ways as a template for many new Special Purpose Funds. It was created in large part through the leadership and financial support of Carl C. Smith and his wife, Thelma.

Through the years, the Fund has provided the financial stipends that have accompanied student awards given in recognition of excellence to encourage students to conduct research on mechanisms of action of toxic agents. Many past recipients of Carl C. Smith Student Awards are now key participants in the activities of the Society of Toxicology.



**Mr. Donald S. Backos** is a recipient of the 2010 Carl C. Smith Student Mechanisms Award for his paper entitled, "Post-Translational Modification and Regulation of Glutamate Cysteine Ligase by 4-Hydroxynonenal."

Mr. Backos is a graduate student at the University of Denver who hopes to play a role in advancing the science of toxicology in the 21st century.



**Mr. Neal S. Gould** is a recipient of the 2010 Carl C. Smith Mechanisms Student Award for his paper entitled, "Aging Adversely Affects the Cigarette Smoke Induced Glutathione Adaptive Response Sensitizing the Lung to Inflammation and Oxidation."

Mr. Gould is a graduate student at the University of Denver, whose work is designed to see how cigarette smoke can alter antioxidants in the airways, and by doing so potentially cause damage.

He hopes to make an impact in the field of mechanisms and help the next generation of scientists learn and advance their careers.



**Mr. Bradley P. Sullivan** is the first place student recipient of the 2010 Carl C. Smith Mechanisms Student Award for his scientific paper entitled, "Thrombin Signaling Enhances TGF-Beta Induction of Integrin Beta6 in Bile Duct Epithelial Cells."

Mr. Sullivan is a student at the University of Colorado.

## Ronald G. Thurman Student Travel Award Fund

*(Fund established August 2009; there was no Awardee for 2010 and the Fund will not be eligible to make an award in 2011.)*

The Ronald G. Thurman Student Travel Award Fund, established with an initial funds pledge from Dr. Thurman's former students, will be used to provide travel awards to one or more graduate students to participate in the SOT Annual Meeting. The Award recipient(s) will be selected by a Committee, to be appointed by the Mechanisms Specialty Section leadership, on the basis of the scientific quality of the abstract of a presentation that applies to biochemical, pharmacological and/or toxicological techniques to questions of interest in mechanistic toxicology. Award applications will be accepted for presentations to be given up to one year after the Award Recipient receives their doctoral degree.

Dr. Thurman, Professor, Department of Pharmacology, played a significant role in furthering the toxicology graduate program at the University of North Carolina at Chapel Hill. He made important contributions to applying mechanistic toxicology to the areas of ethanol metabolism and toxicity, xenobiotic metabolism, liver transplantation, hepatocarcinogenesis, and hepatobiology.

## The Toxicologists of African Origin Endowment Fund

*(Fund Established May 2010; there was no Awardee for 2010 and the Fund will not be eligible to make an award in 2011.)*

The Toxicologists of African Origin Endowment Fund was established by the Toxicologists of African Origin Special Interest Group to support two discrete objectives: (1) to provide educational outreach activities including merit awards and incentives, such as graduate student fellowships, and to award fellowships to attend the SOT Annual Meetings; and, (2) to foster professional development and training, such as workshops dedicated to technical enhancement of a toxicology field and training focused on various toxicology career paths. The Toxicologists of African Origin Special Interest Group will be responsible for developing detailed criteria for nomination and selection of the award recipients.

## CREATION OF NEW ENDOWMENT FUNDS

Individuals, Specialty Sections, Special Interest Groups, Regional Chapters, groups of individuals organized on an *ad hoc* basis, corporations, or other institutions have the opportunity to create new Endowment Funds for specific purposes. The purpose of all SOT Endowment Funds must be consistent with the long-term interests of the SOT and any new Funds

must be approved by the SOT Endowment Fund Board and be ratified by the SOT Council acting on the recommendation of the SOT Endowment Fund Board. Donors who are interested in creating new Funds are encouraged to discuss their intentions with the Endowment Fund Board Chair or other members of the Endowment Fund Board.

## RECOGNITION LEVELS

Tiered recognition levels have been developed to encourage contributions to the Endowment Fund.

## INDIVIDUAL CONTRIBUTIONS

Contributions of \$40 or more are acknowledged in the SOT Endowment Fund Annual Report and other SOT publications unless the donor has asked to remain anonymous. All contributions, irrespective of the amount, are acknowledged in writing. In the case of couples who are both members of the SOT, the **Recognition Level** is based on the contribution of each individual. Thus, a \$500 joint contribution from a couple who are both members of the SOT is recognized for both individuals at the **Gold Level** and a \$1,000 joint contribution is recognized for both individuals at the **Paracelsus Circle Level**.

Individuals who make a cumulative gift of \$10,000 or more are identified as Benefactors. Individuals are designated as **Lifetime Members of the Paracelsus Circle** when they contribute \$5,000 within ten years or make an initial contribution of \$500 or more and indicate their intention to make additional contributions to reach \$5,000 or more within ten years.

The below tables show the recognition for contribution(s) made during SOT's fiscal year (July 1, 2009–June 30, 2010).

INDIVIDUAL CONTRIBUTIONS	
Recognition Level	Contribution in a Fiscal Year
Paracelsus Circle	\$500 or more
Gold	\$250–\$499
Silver	\$100–\$249
Bronze	\$40–\$99

## Corporate/Institutional Recognition

Corporate/Institutional Recognition Levels for the SOT Endowment Fund are the same as those used by the SOT for corporate contributors to the SOT Annual Meeting and are shown here:

CORPORATE/INSTITUTIONAL CONTRIBUTIONS	
Recognition Level	Contribution in a Fiscal Year
Diamond	\$10,000 or more
Platinum	\$5,000–\$9,999
Gold	\$2,500–\$4,999
Silver	\$1,000–\$2,499

# Contributors by Fund

The SOT Endowment Fund Board, on behalf of the entire membership of the Society of Toxicology, gratefully acknowledges the generosity of the many donors who made contributions to the SOT Endowment Fund.

<b>LIFETIME CONTRIBUTION BENEFACTORS</b>			
<b>Cumulative contributions of \$10,000 or more</b>			
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Barbara Gehring and Family	Roger O. and Kathleen M. McClellan	Dennis James Paustenbach	Elizabeth K. Weisburger

<b>PARACELSUS CIRCLE LIFETIME MEMBERS</b>		
<b>Cumulative contributions of \$5,000 to \$9,999</b>		
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<b>PARACELSUS CIRCLE LIFETIME MEMBERS</b>		
<b>An initial contribution of \$500 or more and a commitment to make cumulative contributions of \$5,000 or more within a ten year period.</b>		
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Donald E. and Elly Gardner	Gary and Patti Miller	Clarissa and Tim Wilson
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<b>PARACELSUS CIRCLE</b>			
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### SILVER

\$1,000–\$2,499

Boehringer Ingelheim

Cantox Health Sciences Inc.

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Amgen Foundation on behalf of  
Katherine H. Sprugel and Cynthia A. Afshari  
Genentech on behalf of Dylan Hartley and Eric Harstad

Pfizer Foundation on behalf of  
Leigh Ann Burn-Naas, Frank Kotsonis, Gregory Finch, Denise  
Robinson-Gravatt, and Robert Chapin

# Contributors by Fund

## General Purpose Funds

### EDUCATION FUND

R. David Bauer	Elaine V. Knight	Robert J. Staab
Barbara D. Beck	Robert E. Larson	SOT 50 <sup>th</sup> Anniversary Match
Matthew and Renee Bogdanffy	Lin Mantell	John A. Thomas
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Paul W. and Grace Ferguson	James A. and Gloria Jean Popp	James G. Wagner
Michael A. Gallo	William and Cristine Slikker	Clarissa and Tim Wilson
Daher Ibrahim Aibo		

### INTERNATIONAL ACTIVITIES FUND

Balbir S. Brar	Ronald N. Hines and D. Gail McCarver	Denise Robinson Gravatt	Jacqueline H. Smith
Jon C. and Judith R. Cook	Jose E. Manautou	William and Cristine Slikker	SOT 50 <sup>th</sup> Anniversary Match
Bruce A. Fowler			James G. Wagner

### SOT PRIORITY NEEDS FUND

Joan Abbott	Micaela G. Foley	Martha D. Nelson
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M.L. Ament	Jay I. Goodman	Martin A. Philbert
Rob and Susan Ament	Michael J. Graziano	James A. and Gloria Jean Popp
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Linda and David Birnbaum	Robert and Rose Hester	Denise Robinson Gravatt
Diann L. Blanset	Ronald N. Hines and D. Gail McCarver	William and Cristine Slikker
Kim Boekelheide and Janet Austin	Jerry B. Hook	SOT 50 <sup>th</sup> Anniversary Match
Matthew and Renee Bogdanffy	Alice and Rita Kulig	Jacqueline H. Smith
Mary and Joseph F. Borzelleca	Shawn Douglas Lamb	Dale and Lynn Sparrow
Balbir S. Brar	Robert E. Larson	Gary L. Sprague
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Robert and Rosemary A. Fallar	Nancy A. Monteiro-Riviere	Morris S. Zedeck
Anna and John Field	Karen and Victor Nakano	

### STUDENT TRAVEL FUND

Matthew and Renee Bogdanffy	Anonymous Donor	William and Cristine Slikker
Susan Borghoff	Donald A. Fox	SOT 50 <sup>th</sup> Anniversary Match

## Special Purpose Funds

Funds that did not receive contributions are listed in the front of this report.

### MARY AMDUR STUDENT AWARD FUND

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### YOUNG SOO CHOI STUDENT SCHOLARSHIP AWARD FUND

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Susan Borghoff	Jose E. Manautou	Denise Robinson Gravatt	Mari S. Stavanja
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## FOUNDERS FUND

Jay Murray	SOT 50 <sup>th</sup> Anniversary Match
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## PERRY J. GEHRING BIOLOGICAL MODELING STUDENT AWARD FUND

Conrad J. Housand	SOT 50 <sup>th</sup> Anniversary Match
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## PERRY J. GEHRING DIVERSITY STUDENT TRAVEL AWARD FUND

Betty J. Eidemiller	Jay Murray
James E. and Lisa Klaunig	SOT 50 <sup>th</sup> Anniversary Match

## PERRY J. GEHRING RISK ASSESSMENT STUDENT AWARD FUND

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Jay Murray	Jon Seymour	

## HARRY W. HAYS MEMORIAL FUND

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Thomas D. Darby	Robert A. Scala
Eastman Charitable Foundation	SOT 50 <sup>th</sup> Anniversary Match

## HEALTH AND ENVIRONMENTAL SCIENCE INSTITUTE IMMUNOTOXICOLOGY YOUNG INVESTIGATOR STUDENT AWARD FUND

Dennis J. and Leigh Ann Burns Nass	SOT 50 <sup>th</sup> Anniversary Match
Michael and Mona Holsapple	Daniel Wierda
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## WAYS TO GIVE

The Endowment Fund is happy to consider and accept all contributions whether annual, endowed, or planned gifts, providing they are consistent with the Society's mission. Listed below are additional ways one can contribute to the Endowment Fund.

With respect to our investment policies, Merrill Lynch invests the assets of the Society and the Endowment Fund. The Endowment Fund's assets are invested for long-term growth.

## Bequests

The SOT Endowment Fund has provisions for receiving bequests. Individuals who are interested in including the SOT Endowment Fund in their estate planning should make this known to their Attorney or Estate Planning Advisor. The individual's will or trust documents should explicitly note their wish to have funds from their estate contributed to the SOT Endowment Fund of the Society of Toxicology, a charitable, nonprofit organization under section 501(c) 3 of the Internal Revenue Code. The SOT's tax identification number is 52-605-7050.

The individual may give explicit directions in their will or trust documents as to the purpose the funds are to be used for, including reference to an existing Fund. They may also specify the creation of a newly named Fund whose purpose is consistent with the long-term goals of the SOT. The current SOT Endowment Fund guidelines require that a contribution equal or exceed \$25,000 to establish a new Permanently Restricted Net Asset Fund. Individuals are encouraged to inform the SOT Deputy Executive Director, Clarissa R. Wilson, if they have included the SOT Endowment Fund in their Estate Plans; however, this is not a requirement.

## Charitable Gift Annuities

In response to interest from SOT members, the Endowment Fund Board has explored various avenues by which individuals can purchase Charitable Gift Annuities. These Annuities are designed to provide lifetime income to the individual purchasing the Annuity. They offer an opportunity for tax benefits to the Annuitant when the Annuity is purchased and a portion of the income is tax-exempt. Most importantly, the Annuitant can name the Society of Toxicology Endowment Fund as the beneficiary of the assets remaining in the Annuity on their death. The Endowment Fund Board recommended and the Council approved in September 2007 an approach for SOT members to purchase such Annuities. Elizabeth K. Weisburger was the first SOT member to secure one of these Annuities. She has identified the Vera W. Hudson and Elizabeth K. Weisburger Scholarship Fund as the beneficiary of her Annuity.

## Employment Matching Funds

Some SOT members are employed by corporations that have programs for matching employee contributions to charitable organizations like the Society of Toxicology. Individuals are encouraged to inquire if their employer has such a program and, if so, make it known to the SOT when making their contributions to the Endowment Fund.

The donor is also encouraged to process the necessary forms within their company to ensure that the employer matching funds are transferred to the SOT. If SOT's matching policy applies and funds are available, they will be applied to both the individual's original donation and to the employer's matching contribution.

## Honoring Others

If the donor wishes, they may indicate that their contribution to a specific Fund is being given to honor a living individual, such as a family member or colleague, or is given in memory of a deceased individual. The donor only needs to make their wishes on this matter known on their Donor Contribution Form. Each year's Annual Report will identify the donors who have given Funds in honor or in memory of individuals.

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**Clarissa Russell Wilson**, SOT Deputy Executive Director



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*Investing in the Future ...*

**THE SOT SEAL WAS CREATED BY LOUISE SHAFFER,  
WIFE OF C. BOYD SHAFFER, A FOUNDER OF THE SOCIETY**

**Theme: “Safety and Protection from Poison Through  
Increasing Knowledge”**

**SALUS—Latin for “Safety”**

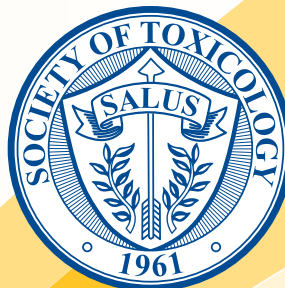
**The Ribband—A token of pre-eminence or superiority**

**The Arrow—Toxicum (Latin for poison arrow)**

**The Shield—Protection**

**The Wreath—Symbol of success**

**Radiating Lines—Force manifesting itself: Victory over  
ignorance**



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