



ACADEMY OF TOXICOLOGICAL SCIENCES

**Annual Newsletter, June 2011
Vol. XI**

Academy of Toxicological Sciences – President's Overview



It is my pleasure to write this 2011 President's letter for the Academy of Toxicological Sciences (ATS). As I have worked with the ATS, first as a board member, then within the presidential chain, the more I have come to appreciate what it means to be a Fellow

and how we, collectively, contribute to the field of toxicology. The ATS website states, "The vision of the Academy of Toxicological Sciences is to be recognized as the leading international organization that certifies toxicologists based on their education, professional experience, demonstrated achievement, proven ability and scientific expertise." Although a primary role of ATS is peer-review certification, ATS continues to foster scientific education through sponsoring symposia and workshops.

At the 2010 Annual SOT meeting, Dr. Jim Bus (chair) and Dr. Barbara Beck (co-chair) organized a roundtable, "Weighing Complex Data in Risk Decisions: Concepts of Evidence-Based Toxicology." For the 2012 SOT meeting, Drs. MaryJane Selgrade and Lucio Costa have organized a proposal on international certifications in toxicology. This proposal grew out of an IUTOX initiative. At the

2011 SOT meeting, IUTOX invited toxicologists that represent different certifying bodies to a meeting to begin to explore how IUTOX may serve some, yet identifiable, role in international toxicology certification. This process is expected to take several years, and Dr. Bus and I will continue to represent ATS in this IUTOX initiative. In addition, ATS was one of several sponsors for the second and third annual workshop for the Alliance for Risk Assessment that brought together a diverse group of experts to discuss the modernizing of the risk assessment guidance and methods. The Alliance was organized by ATS Fellow Dr. Mike Dourson.

Additionally, ATS continued to provide travel support for the ATS Travel Award for the IUTOX meeting in Barcelona. This award helped an early career scientist to attend this meeting who might otherwise not have had the means to do so. In order to identify additional ways to enhance the image of ATS, a Visibility Task Group was formed that included efforts by Drs. Shayne Gad, Ladd Smith, and Ray York. This task group constructed and administered the ATS member survey. Results from this survey are discussed later in the newsletter. There were some very interesting comments received.

The Board of Directors (BOD) actively encourages distinguished scientists, with whom Board members may already be acquainted, to apply to

become a Fellow of ATS. Also, the BOD looks to you, our members, to identify and encourage individuals to apply for membership. We have found that a direct, personal approach is perhaps the most successful way to attract a new member. To further facilitate membership, Dr. Jim Bus has developed a strategic plan for expanding ATS membership. As part of this initiative, Dr. Bus and Dr. James C. Lamb IV, are in the process of revising the certification application in order that the BOD can continue to ensure that there is equitable evaluation of potential new ATS Fellows. Although the results from the survey did indicate that the application process was a fair and equitable one, the application and application process are considered as evergreen.

Despite the economy, our financial position continues to improve. We had a number of individual and corporate donors for the ATS Reception this year, as well as individual donors to general ATS activities. We are very grateful to those individuals and companies for their generous support. More details on our financials are provided by Dr. Peter Goering in another article in this newsletter.

A highlight of the ATS Reception and Business Meeting this year was the presentation of a new ATS award. The BOD created the Mildred S. Christian Career Achievement Award. As you know, Dr. Christian, known to many as Millie, devoted a considerable amount of her time, energy, and resources to ATS, and she was key to developing the organizational structure and function of ATS as it is today. Therefore, this award was created as a testament to Millie's many achievements to the profession. The 2011 Award was given to Dr. Bruce Ames. The BOD could not have had a more deserving recipient for this award than Dr. Ames considering his long-standing contributions to science and to the field of toxicology. A short overview of his acceptance speech is given later in the newsletter.

Since the 2010 Annual Meeting, the designation of ATS Fellow has been conferred on 14 individuals (see the list of new Fellows in this newsletter). In addition, 48 Fellows recertified. Congratulations to all new Fellows and those that re-certified.

Finally, I would like to express my thanks and appreciation to the BOD for their support and contributions to ATS in the last year during my tenure as President. Dr. Michael Aschner will rotate off the board in June 2011 with Dr. Gary Yost stepping in as the new BOD member. I also want to thank the other Board Members Daniel Acosta, Jim Bus (President-elect), Jim Lamb (Vice President-elect), Peter Goering (Secretary-Treasurer), Meryl Karol, Lois Lehman-McKeeman, José Manautou, Lucio Costa, and Mary Jane Selgrade for their efforts over the past year. The new term begins July 1. At that time, Jim Bus will take on the mantle of presidency and Jim Lamb will begin his term as Vice-President. Finally, a very special "Thank You" goes to Marcia Lawson for her tireless efforts in assisting with ATS over the past year. She has helped keep us on track with her organizational skills as well as her ability to think "outside the box" when it came to new initiatives and financial planning.

Please read the rest of this newsletter for more detailed information about past and planned activities, as well as our financials. Also, feel free to contact me with any questions, comments, or concerns.

Update HIGHLIGHTS

- President's Message
- ATS Membership Survey
- ATS Inaugural Mildred Christian Career Achievement Award to Bruce Ames
- ATS New Board Member Gary Yost
- ATS President-Elect James C. Lamb, IV
- ATS Risk Assessment Workshop Sponsorship
- Secretary/Treasurer Report
- Membership and Member News

ATS Fellow Survey Results: A View from Above

In mid-2010, the ATS Board of Directors (BOD) agreed that one means to improve the visibility and recognition of ATS would be to first understand the views of current ATS Fellows regarding the benefits of ATS certification and the organizational structure and processes within ATS. To help meet this goal, a Visibility Task Group was organized and chaired by ATS President Dr. Bill Brock. Members of the Task Group were Drs. Ladd Smith, Ray York, and Shayne Gad. The survey was constructed in such a way that the results would allow the BOD to explore the application and recertification process, and how current ATS Fellows view potential benefits (personal and professional) of ATS certification, as well as general comments on the ATS organization and programs. The results from the survey were gathered in January and briefly reviewed at the ATS reception during the SOT Annual Meeting this year. The following is a brief overview of those results. If anyone is interested in a specific aspect of the survey, please contact Dr. Bill Brock (billbrock@comcast.net).

The survey went out to all current ATS Fellows (~150). At the close of the survey, we had received responses from 123 Fellows, which is an exceptional 84% response rate. The more frequent comment obtained was that the survey was “long overdue,” and may attest to the high response rate. Nearly all respondents (70-80%) indicated that ATS certification resulted in personal or professional satisfaction. A majority of the respondents indicated that ATS certification, in addition to other certifications, garnered greater peer recognition within toxicology. Overall, responses and comments suggested that satisfaction and recognition are the major benefits of ATS certification.

A majority of respondents (~70%) indicated that, although not required for their position, ATS certification forces Fellows to stay current with the ever-changing science of toxicology (~50%). Indeed, about 70% of respondents indicated that re-certification should include more: not only a review of a publication record or continuing education but also service to the profession as well.

Another key factor within the survey was the certification and re-certification process, which reinforces the BOD's continuing re-work of the application process to ensure that it fairly evaluates candidates from all toxicology sectors, e.g., academia, industry, government, and consulting. According to the survey responses, the application was considered to be a fair process for toxicologists in all of these sectors. However, there was a percentage (~35%) of respondents who indicated that individuals in the government, industry, and consulting are disadvantaged by the application process. The BOD can assure all Fellows that the application and application process is continuously reviewed and updated as needed to ensure equitable treatment of all candidates. For re-certification, about 65% of respondents indicate that this is unnecessary after 15 years following certification.

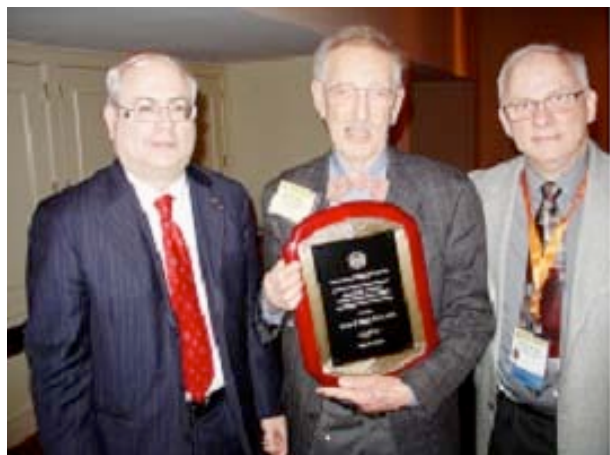
Since ATS makes efforts to sponsor or develop educational programs in conjunction with professional meetings, e.g., SOT, a majority of respondents encouraged continuation of these activities, including outreach to toxicologists in developing countries and regions. In addition, respondents suggested developing a mentoring program for younger toxicologists that would demonstrate the value of networking and certification in toxicology.

The final series of questions in the survey was about the demographics of ATS Fellows. Seventy-five percent of Fellows continue to work full-time whereas the rest are working part-time as consultants or completely retired. About 97% of respondents possess a doctoral degree. ATS Fellows belong to a variety of professional organizations, most notably SOT; 98% of Fellows are SOT members. Also, about 50% of ATS Fellows are certified by another accrediting organization, e.g., ABT, ACVP, ERT and respondents value ATS certification on a par with these other bodies. Most of the respondents to the survey indicate they work in either academia (31%) or consulting (31%) with 10-11% working in government or the pharmaceutical/biotechnology industry; all sectors

are represented by ATS Fellows. A majority of ATS Fellows reside within the United States but nearly all regions are represented, e.g., Europe, Asia, Africa.

The BOD appreciates the time all Fellows put into answering the survey. The outcome of this survey will certainly help ATS develop those programs that can further the goals and mission of ATS and thereby improve its visibility and name recognition. Furthermore, we can assure all Fellows that these results will be considered by the BOD as policies and practices are implemented.

ATS Establishes the Mildred S. Christian Career Achievement Award: Bruce Ames First Recipient



Drs. Hoberman, Ames, and Brock

This year the ATS established the Mildred S. Christian Career Achievement Award to honor the memory of Dr. Christian, known to many as Millie. As many of you know, Millie gave much of her time and financial resources to the Academy and helped to make the ATS into an efficient and scientifically recognized organization. Many of the policies and practices we use today benefit from her efforts.

The ATS award will be presented to an ATS Fellow who has clearly demonstrated a lasting impact on toxicological sciences. The criteria for the award include, but are not limited to, the following:

1. The awardee must be an ATS Fellow in good standing as either a full ATS Fellow or ATS Emeritus. A Fellow that is a current member of the Board of Directors of ATS is not eligible to receive the award.
2. The awardee must have demonstrated extraordinary scientific achievement through publications, professional activities, and/or leadership that have enhanced the practice of toxicology as judged by the Board of Directors.

Dr. Bruce Ames was the first recipient of the award, and was given a plaque at the ATS reception during this year's SOT Annual Meeting. Dr. Alan Hoberman, friend, colleague, and husband to Millie, co-presented the award to Dr. Ames with ATS President Bill Brock. See some of the pictures from the reception elsewhere within the newsletter.

If you know an ATS Fellow that is deserving of the Mildred S. Christian Career Achievement Award, send the colleague's name and complete CV to Marcia Lawson (mlawson@aim-hq.com) for the Board's consideration. Within ATS there are many Fellows that could meet these criteria considering the ATS is made-up of very remarkable toxicologists.

Election Highlights – Incoming ATS Board of Directors

ATS Welcome New Board Member Gary Yost



Garold S. Yost is a Professor of Pharmacology and Toxicology at the University of Utah. He received his Ph.D. in 1977 in Organic Chemistry from Colorado State University and was a postdoctoral fellow with Dr. Paul Ortiz de Montellano, Dept. Pharmaceutical Chemistry, University of California, San Francisco. Dr. Yost also was a research scientist for 3 years in the laboratory of Dr. Catherine Fenselau, Dept. Pharmacology, Johns Hopkins University School of Medicine, Baltimore. He began his academic career in the College of Pharmacy at Washington State University (1981-87) and has been at the University of Utah since 1987. Dr. Yost is internationally recognized as an authority on toxicology in the respiratory tract, with particular expertise on the cytochrome P450-mediated mechanisms of lung injury. He was awarded the AstraZeneca Traveling Lectureship and the Colgate-Palmolive Traveling Lectureship from the Society of Toxicology. He is on the editorial boards of a number of journals and has published 111 papers in the peer-reviewed primary literature, along with 18 book chapters. He is the editor of *Respiratory Toxicology*, Vol. 9, in *Comprehensive Toxicology*, 2nd Edition, 2010.

ATS Board Elects James C. Lamb, IV Incoming 2011-2012 Vice President

Dr. James C. Lamb, IV, has extensive experience in toxicology, risk assessment, and scientific and regulatory policy. Dr. Lamb served on several National Academy of Sciences committees on risk assessment, endocrine disruption, and toxicology. He has served on various ILSI panels, including one that made substantial contributions in Agricultural Chemicals Safety Assessment, and still serves as an academic advisor to the ILSI Committee on Developmental and Reproductive Toxicology.



He is a member of the SOT TSCA Reauthorization Task Force. He has recently served on contract review committees for the National Institute of Mental Health and the NIEHS.

He was an Associate Editor of the journal *Environmental Health Perspectives*. Dr. Lamb has worked in various federal government positions and was Head of the Fertility and Reproduction Group at the NIEHS/NTP and the Special Assistant to the Assistant Administrator for Pesticides and Toxic Substances at U.S. EPA. For the last 20 years he has consulted on issues affecting pesticides, industrial chemicals, consumer products, pharmaceuticals, medical devices, and food additives. He is presently Director of the Toxicology and Mechanistic Biology Center and a Principal Scientist at Exponent. His publications reflect his unique experience in endocrine disrupting chemicals, reproductive and developmental toxicants, carcinogens, and systemic toxicity. He has published over a hundred peer-reviewed publications and numerous abstracts and book chapters.

Fellows in the News

Michael Aschner received the **Society of Toxicology Merit Award** at the SOT Annual Meeting in Washington, DC, last March. Dr. Aschner is currently the Gray E. B. Stahlman Chair of Neuroscience and Full Professor of Pediatrics and Pharmacology at Vanderbilt University Medical Center. The SOT Merit Award recognizes distinguished contributions to toxicology throughout a career in areas such as research, teaching, regulatory activities, consulting, and service to the Society. He was recognized for his outstanding research career evaluating the neurotoxicology of metals, particularly the mechanisms of methylmercury and manganese neurotoxicity. His pioneering work has allowed a shift beyond the “neuronocentric” theory of neurotoxicity to understanding the important roles that glial cells play in modulating the neurotoxicity of metals and of other compounds. He has been a mentor to many graduate students and colleagues and has devoted considerable time and effort to the activities of scientific societies and organizations. All ATS Fellows extend their congratulations to Miki and are pleased to count him as one of their own.

ATS Fellows Elected to SOT Council

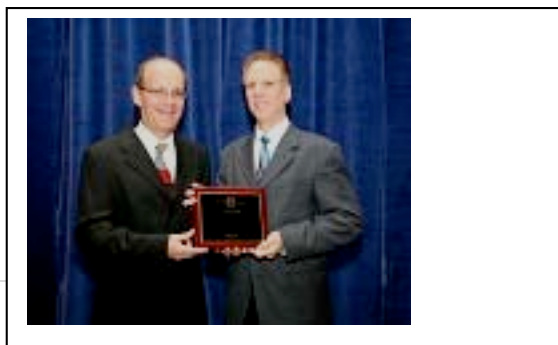
Congratulations to Dr. Lois Lehman-McKeeman, Bristol-Myers-Squibb Company, and Dr. John Lipscomb, USEPA, for their recent election to the Council of the Society of Toxicology. Lois, as the new Vice President-elect of the Society of Toxicology, begins a four-year tenure in the presidential chain. John was elected to the position of Councilor, a 2-year position.

ATS Finances Are Sound and Growing

The financial health of the Academy is good but an influx of new Fellows is needed to sustain and grow this organization of distinguished toxicologists. We are meeting budget targets and planning for new recruitment efforts in 2011-2012. The BOD expresses its gratitude to those members whose gifts of donations and reception sponsorship contributed an additional \$4300 of revenue.

Notifications for the recertification of the Class of 2006 Fellows will be forthcoming. It is hoped that this 30rd Anniversary Year for ATS will be a period of continuing growth.

ATS Fellow Michael Aschner Receives SOT Merit Award from ATS Fellow Donald A. Fox



ATS Membership Initiative

The ATS is developing plans to expand its membership through several avenues. First, we are taking an active role as sponsors of scientific sessions at toxicological conferences to increase our visibility. Second, we are revising the ATS application form to make the process even more transparent to the applicant. Third, we will be calling on current fellows to encourage their peers to submit an application.

The second and third steps will be described in coming months. We do not intend to lower the standards for admission to ATS, but we do believe that the current application form discourages qualified applicants from applying. Revised forms are being developed and any suggestions from the current fellows can be sent to Jim Bus.

Thank You to Our 2010-2011 ATS Donors

In appreciation for the very generous support from the membership, please join us in thanking the members listed below who donated additional money to fund emerging initiatives:

William T. Allaben
Barbara D. Beck
Bruce K. Bernard
Joseph F. Borzelleca
William J. Brock
Byron E. Butterworth
Michael J. Derelanko
John M. DeSesso
Marion F. Ehrich
William Farland
Bruce A. Fowler
Peter L. Goering
Gio Batta Gori
Sidney Green

Bryan D. Hardin
Stephen B. Harris
Kenneth Hastings
Ronald N. Hines
Ronald D. Hood
Saber M. Hussain
Hartmut Jaeschke
Lois D. Lehman-McKeeman
José E. Manautou
Charlene McQueen
Jay C. Means
Angelo Moretto
Robert E. Osterberg
Reid D. Patterson

Timothy Raczniak
Ceinwen A. Schreiner
MaryJane Selgrade
Robert G. Tardiff
Christopher M. Teaf
John A. Thomas
Peter A. Valberg
Garold S. Yost

ATS BOARD OF DIRECTORS

The ATS fiscal year is July 2011 to June 2012. The gavel will be passed from ATS President Bill Brock to James S. Bus who will work on the future activities of the Academy with the board members listed below.

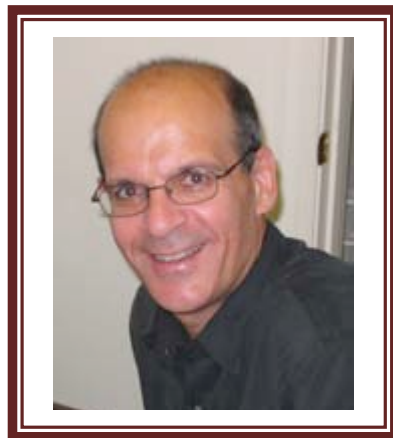
2011-2010 Board of Directors*

James S. Bus, President (2008-2013)
James C. Lamb, IV, Vice President (2008-2014)
Peter Goering, Secretary/Treasurer (2008-2012)
William J. Brock, Past President (2007-2012)
Daniel Acosta, Jr. (2010-2013)

Lucio Costa (2010 -2013)
Meryl Karol (2010-2012)
Lois Lehman-McKeeman (2010-2013)
José Manautou (2010-2012)
MaryJane Selgrade (2010-2013)
Garold S. Yost (2011-2014)

*Terms provided in parentheses

Thanks to outgoing Past President Barbara D. Beck and Michael "Miki" Aschner for their service on the ATS Board of Directors.



MEMBERSHIP

ATS New Fellows and Recertification

Fourteen SOT Members were certified as Fellows of the Academy of Toxicological Sciences (ATS) from July 2010 to January 2011. The new fellows are **Herman N. Autrup, Jonathan Benjamin Borak, Leigh Ann Burns Naas, Jon C. Cook, Ann de Peyster, Robert V. House, Virginia (Ginger) C. Moser, Ofelia A. Olivero, Timothy J. Raczniak, Alfred Mario Sciuto, Rosalind A. Schoof, Jane Ellen Simmons, Myra L. Weiner, and Peter K. Working.**

During that same timeframe, ATS Fellows who have demonstrated their continued commitment to ATS by seeking and attaining recertification are **William T. Allaben, Melvin E. Andersen, Elizabeth L. Anderson, Bruce Kenneth Bernard, Linda S. Birnbaum, Hugh E. Black, Robert L. Bronaugh,**

Janice E. Chambers, George B. Corcoran, Felix de la Iglesia, Michael S. Denison, Marion F. Ehrich, Jeffrey William Fisher, Donald A. Fox, Shayne C. Gad, David W. Gaylor, Edwin I. Goldenthal, Jay I. Goodman, William F. Greenlee, Joseph P. Hanig, Gordon C. Hard, Bryan D. Hardin, Stephen B. Harris, Mark Hite, Robert W. Kapp, Ali Esat Karakaya, William R. Kelce, Lewis B. Kinter, Ralph Kodell, Edward A. Lock, James N. McDougal, Frederick J. Miller, Richard Miller, Ian C. Munro, Richard A. Parent, Reid Patterson, Robert F. Phalen, James A. Popp, Kenneth S. Ramos, Ruth A. Roberts, Colin G. Rousseaux, I. Glenn Sipes, William Slikker, Jr., Keith Solomon, John A. Thomas, Peter T. Thomas, Kendall B. Wallace, and Annetta Watson.

ATS Supports ARA Workshops – Increased Visibility for the Academy

The Alliance for Risk Assessment (ARA) is a non-profit organization whose membership consists of both private and public sector parties, with technical interests in the risk assessment process. By enhancing the scientific basis of toxicological risk assessment, ARA promotes public health protection through multi-party collaborative efforts. It is within this context that the ARA organized a series of three workshops in 2010 and 2011, the aim of which was to advance the discussion of risk assessment concepts framed by the 2009 NAS report “Science and Decisions: Advancement of Risk Assessment” ([NAS, 2009](#)). An Expert Panel consisting of scientists from government, industry, research organizations, academia and consulting companies, led the three workshops. Examples of case studies discussed at the workshops included approaches to quantifying risk above the reference dose (RfD) and dose-response assessment for genotoxic chemicals. The third workshop, held in 2011, built on the prior workshops, and sought to develop consensus for purpose-specific dose-response methods. The Academy of Toxicological considered this activity consistent with ATS’s mission and provided financial support to the ARA workshops. Equally important was that several members of the expert panel, including Dr. James Bus, are also members of the Academy of Toxicological Sciences.

2011 ATS Annual Business Meeting and Reception Was Great Success – Thanks To Our Sponsors!

Over 90 ATS Fellows gathered to renew long-standing friendships and to welcome the new ATS Fellows at the 2011 Annual Business Meeting and Reception held from 8:00 PM–10:00 PM at the Renaissance Hotel, Washington, D.C. Incoming ATS President James S. Bus presented William J. Brock with a plaque in commemoration of his outstanding leadership of ATS. A highlight of the evening was the presentation of the ATS Mildred Christian Achievement Award to Bruce Ames. In addition, there was recognition that 2011 is the 30rd Anniversary of ATS. Dr. Brock thanked the BOD for their active involvement and encouraged all ATS members to encourage distinguished toxicologists to submit applications to become Fellows of the Academy of Toxicological Sciences. ATS Donors and ATS Reception Sponsors were recognized by Dr. Brock and on signage prominently displayed at this event. The ATS Reception Sponsors are listed below.

Daniel Acosta, Jr.,
William J. Brock
Leigh Ann Burns Naas
Ann de Peyster
Exponent, Inc.

Lewis B. Kinter & Terry Timberlake-Kinter
Lois D. Lehman-McKeeman
Teratology Excellence for Risk Assessment
(TERA)
Myra L. Weiner, TOXpertise LLC

2011 ATS Reception Photo Gallery



Dan Acosta, Ofelia Olivero, Jim Lamb



Thanks to ATS Reception
Photographer Bill Allaben



**2011-2012 ATS President Jim Bus
Presents Commemorative Plaque to
ATS 2010-2011 President Bill Brock**



Ray York and new ATS Fellow Ginger Moser



**Two Generations of ATS Fellows
Susan and Donald Gardner**



Harry Salem and Kannan Krishnan



Cheryl Lyn Walker



Bill Brock, Christine Slikker, Marion Ehrich, Roger McClellan



Bryan Hardin, Bill Slikker, Bruce Kelman



Bob Osterberg and Myra Weiner

In Memoriam Ian Munro



Ian C. Munro of Ontario, Canada, passed away on April 27, 2011. He was a member of the ATS Board of Directors from 2004-2007 and a generous reception sponsor. Dr. Munro was the 1975 recipient of the SOT Achievement Award. On April 15 it was announced that a generous gift from Dr. Munro and his wife was presented to McGill University, his alma mater, to establish the Ian and Jayne Munro Chair in Food Safety, the first of its kind in Canada. Dr. Munro was the Executive Vice-President and Senior Scientific Consultant of Cantox Health Sciences International based in Mississauga, Ontario.