

Society of Toxicology NEWSLETTER

MAY/JUNE 1993

Storm of the Century Doesn't Stand in the Way of SOT's Biggest Annual Meeting Ever!

Even in the very best of circumstances, annual meetings present a broad range of challenges for organizers, attendees and staff alike. As anyone who has ever participated in an annual meeting knows, making everything go as planned requires a delicate balance of skill, foresight and luck. Even then, nothing is guaranteed. Now, add what was reported as the worst snow storm of the century to the equation and you'll begin to get the full picture of the 1993 SOT Annual Meeting. However, despite airports from Florida to New York that were chaotic at best and closed at worst, SOT enjoyed its biggest meeting ever. Perhaps *Science* magazine said it best when it reported, "Neither rain nor snow nor sleet nor hail could keep 4000 toxicologists from descending on New Orleans for the annual meeting of the Society of Toxicology."

The storm hit Saturday, March 13, and within half-a-day airports throughout the Southeastern U.S. began postponing flights and, as the storm worsened, canceling them altogether. By mid-Saturday it was clear that the Continuing Education Courses, scheduled for Sunday, were going to be adversely affected — many speakers were stranded in airports throughout the country or were stuck at home. The Continuing Education Committee and SOT staff had to determine *which* of the speakers had made it to New Orleans and which hadn't. This entailed telephoning numerous New Orleans hotels and making cross-country calls to members to find out if they were going to be able to attend. For those who weren't able to attend, substitute speakers with expertise in the area had to be located — often the Chairperson of the course or a committee member was drafted.

Because the CE Committee and SOT staff felt it was very important that every possible CE Course presentation be made, they stayed up until midnight making overhead transparencies of missing speakers' presentations. In the end, the substitute speakers did

an excellent job speaking on their stranded colleagues' topic and only one course was canceled.

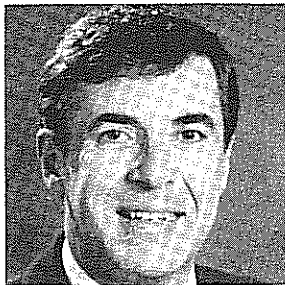
Continuing Education speakers who were unable to attend the meeting made tape recordings of their presentations, which have been integrated with recordings of the speakers who were present at the meeting. Members are able to purchase a complete audio tape featuring all originally-scheduled speakers. (See enclosed flyer).

Just as the CE course speakers were affected by the storm, so were the speakers scheduled during Monday through Thursday's general scientific sessions. The Program Committee confirmed that a chairperson was present at each session, enlisting, or serving as, a substitute when necessary. Symposia and Special Session replacement speakers were briefed and all sessions were held. In fact, a specifically arranged "snow delay poster session" was staged to accommodate 18 poster presenters not able to attend their scheduled sessions.

The storm also affected minority students and their mentors. Original plans called for an SOT representative to greet each minority student on arrival at the airport; however, the storm made this a long and very difficult task. Because of the late arrivals, many mentors, substitute mentors and ad hoc Tox 90s Educational Issues Task Force members donated large amounts of unscheduled time to advise and meet with students. Similarly, the Education Committee made unexpected arrangements to interview late-arriving award finalists. In fact, the last interview was conducted just hours before the Wednesday night award presentation. The generosity of time and spirit displayed by all was greatly appreciated.

Perhaps the best indication of the high regard many individuals have for the SOT Annual Meeting is that some attendees travelled for as long as *40 hours* to get there. One student from Utah reported that she had spent a total of 26 hours, including sleeping on airport floors, to get to her platform session. Now *that* is dedication.

Once again, many thanks and congratulations to everyone for helping to make the 1993 SOT Annual Meeting the best ever!



Society of Toxicology

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Washington, DC 20005-5601
(202) 371-1393
Fax: (202) 371-1090

Deadline for next issues:

June 10th
August 10th
October 10th
December 10th

1994 Annual Meeting:

March 13-17
Dallas, TX

1995 Annual Meeting:

March 5-9
Baltimore, MD

1996 Annual Meeting:

March 10-14
Anaheim, CA

1997 Annual Meeting:

March 9-13
Cincinnati, OH

President's Message

The lead story on page 1 of this newsletter tells one part of the story of the 1993 Annual Meeting. Although the "Blizzard of '93" captured the imagination and dominated much of the informal conversation in hallways, there is a bigger story to be told.

The 1993 Annual Meeting featured several innovative programs. The Program Committee, Council and SOT Committees and Specialty Sections all brought forward new programming ideas to enhance the meeting. The results were extremely successful. As the meeting grows in numbers, it is important to constantly seek to broaden the scope of our offerings, to bring to our meeting the best quality science in toxicology and related disciplines, and to reach out beyond the membership to interested parties in the local community and related societies. This is, in my mind, the true story of the 1993 Annual Meeting.

In chronological order of their occurrence during the meeting, I offer the following highlights:

On Saturday afternoon, a special Workshop on Expert Witnessing Training was offered. It was sold-out prior to the meeting, and a good number of registrants attended (most of them had arrived in New Orleans prior to the blizzard). Dr. Jack V. Matson, author of *Effective Expert Witnessing*, presented a well-received overview of the legal system and the role of expert witnesses. Due to the success of this workshop, a similar workshop on working with the media is being planned for the 1994 Annual Meeting in Dallas.

The Committee on Public Communications sponsored a workshop on Monday afternoon on "Health Concerns in Louisiana: Facts and Perceptions." This was the first time, in recent history at least, that an SOT session focused on the toxicological problems of the area in which the meeting was being held. Five speakers, including Dr. Kenneth Olden, Director, the National Institute of Environmental Health Sciences, discussed various aspects of the industrial, state and Federal response to these problems, as well as provided advice on treatment and prevention. This session attracted a number of local interested parties and exposed the Society and the meeting far beyond our traditional registrants.

Another first for the Society was the inauguration of the EUROTOX/SOT debate series that was held on Tuesday at Noon. These debates will alternate at the annual SOT and EUROTOX meetings with a discussant representing each of the two societies. These sessions are intended to focus on topics where there are scientific controversies or differences of opinion, with the objective of exchanging views, stimulating scientific discussion, demonstrating limitations in data and interpretations, as well as suggesting areas of future research.

The theme selected for the debate in New Orleans, "Impact of New Scientific Findings on Regulatory Approaches to Dioxin," resulted in an extremely large audience. Dr. Linda S. Birnbaum, substituting at the last moment for snow-bound Dr. William Farland, both of the USEPA, presented the US approaches to the regulatory decisions. Dr. Ulf F. Ahlborg, Institute of Environmental Medicine, Karolinska Institute, Stockholm, presented the European approach to the regulation of dioxins. A summary of the debate, prepared by Dr. Erik Dybing, will appear in the next issue of the EUROTOX newsletter; copies of the summary are available from SOT Headquarters.

The next debate will take place at the EUROTOX '93 congress in Uppsala in early July, where Dr. Rick G. Schnellman will represent the US position on the topic of "Necrosis vs. Apoptosis in Toxicant-Induced Cell Death." We are grateful to the participants and to EUROTOX for providing this forum for discussion of scientific matters of international appeal, thus broadening the knowledge base of both societies.

The Regulatory Affairs and Legislative Assistance Committee sponsored our outstanding plenary speaker, The Honorable Stephen Breyer, who spoke on Wednesday morning on the topic of "Breaking the Vicious Circle: Toward Effective Risk Regulation." Judge Breyer attracted the largest audience in the history of the Society—about 2,500 scientists attended this plenary session. Several hundred remained after his lecture for an interactive question and answer session. A plenary lecture is also being planned for the Dallas meeting; the Program Committee would welcome your suggestions.

So, although the lead story of the newsletter is the heartwarming cooperation on the part of the great number of members and speakers inconvenienced by the blizzard, the real story may be the extraordinary programming and planning before the event. Everyone involved should be proud of his or her part in the process.

Sincerely,



I. Glenn Sipes, Ph.D.

1993-94 Election Results

Vice President-Elect:

Jack H. Dean, Sterling Winthrop Inc.

Secretary-Elect:

Jay I. Goodman, Michigan State University

Councilors:

William F. Greenlee, Purdue University

Robert A. Roth, Michigan State University

Education Committee:

Janice E. Chambers, Mississippi State University

Ronald G. Thurman, University of North Carolina

Membership Committee:

James A. Bond, CIIT

Michael J. Olson, General Motors Research

Nominating Committee:

(from the Regional Chapters):

Harry Salem, U.S. Army

(from the Past Presidents):

Jerry B. Hook, ALEXIN Pharmaceuticals Corp.

(from the Specialty Sections):

Gary L. Lage, ENVIRON Corporation

(from the Membership-at-Large):

Linda S. Birnbaum, USEPA

1993 Awards

The Society presented the following awards during the 1993 Annual Meeting:

SOT Awards

- **Merit Award:** John Doull, University of Kansas Medical Center
- **Arnold J. Lehman Award:** Thomas Clarkson, University of Rochester
- **Toxicology Education Award:** Curtis D. Klaassen, University of Kansas Medical Center
- **Achievement Award:** David Eaton, University of Washington
- **Frank R. Blood Award:** Thomas Mably, Robert W. Moore, Robert W. Goy, Richard E. Peterson, University of Wisconsin School of Pharmacy and Environmental Toxicology Center, Research supported by funds from NIEHS.

Sponsored Awards

- **Zeneca Traveling Lectureship (formerly the ICI Traveling Lectureship):** Terrence James Monks, University of Texas, and Harihara H. Mehendale, Northeast Louisiana University
- **Burroughs Wellcome Toxicology Education Scholar Awards:** Debra Lynn Laskin, Rutgers University, and Leona Samson, Harvard University
- **Colgate-Palmolive Post-Doctoral Fellowship Award in *In Vitro* Toxicology:** Erika Cretton, University of Alabama-Birmingham

1993 Graduate Student Fellowships

The Society's Graduate Student Fellowships for the 1993-94 academic year were awarded to:

- **CIBA-GEIGY Corporation - Christopher Martenson,** Duke Medical Center
- **Hazleton Laboratories - Michael F. Denny,** Michigan State University
- **Hoffmann-La Roche, Inc. - Bevin Engelward,** Harvard School of Public Health
- **Procter & Gamble Company - Regina Donohoe,** Oregon State University

Nominations Sought

Honorary Memberships

SOT members are encouraged to nominate individuals for Honorary membership in the Society. In accordance with the SOT By-Laws:

"Candidates for Honorary membership are nominated by two voting or Associate members of the Society, including members of Council. Nominations shall be accompanied by seconding letters and information regarding career achievements in toxicology. Election of Honorary members shall be by a two-thirds majority vote of Council. Not more than two Honorary members shall be elected during any one term of Council. Honorary members shall not be assessed dues."

Please send nominations and accompanying documents to the Executive Secretary, SOT, 1101 Fourteenth Street, NW, Suite 1100, Washington, D.C. 20005-5601.

Officers and Elected Committees

The Nominating Committee asks your help in the preparation of the slate of nominees for the 1994 SOT elected officers and members of elected standing committees. The offices to be filled in 1994 include the Vice President-Elect, Treasurer-Elect, and two Councilors. Additionally, two members will be elected to the Membership Committee and Education Committee and four members to the Nominating Committee. The terms and duties of each position are described in the By-Laws. There are many SOT members with the ability and enthusiasm to willingly serve the Society in these important positions. Please send your recommendations to any member of the Nominating Committee: **Donald J. Reed**, Chairperson, **Harry Salem**, **Gary L. Lage**, **Jerry B. Hook**, **Linda S. Birnbaum**, or **Jack H. Dean** (liaison).

Act now! Your suggestions must be received by **October 1, 1993**.

Awards

In recognition of distinguished toxicologists, the Society of Toxicology presents several awards each year. A complete description of each award is given in the annual Membership Directory.

Each nomination must be submitted by a sponsor and a seconder who are members of SOT. The quality of supporting documentation is critical in the review of the nomination of each candidate. Please send all nominations and supporting documentation to the Awards Committee chairperson, **Dr. John L. Emmerson**, SOT Headquarters. Deadline for receipt of nominations for 1994 Awards is **October 1, 1993**. A form is enclosed with this newsletter for your convenience.

Airline Ticket Winner

The winner of two round-trip tickets on Delta Airlines, selected from the Annual Meeting attendees using the SOT discounted travel program, was **Daniel Nebert**, University of Cincinnati. Congratulations, Dr. Nebert!

SOT Thanks 1993 Annual Meeting Sponsors

The Society of Toxicology would like to thank the following organizations for their generous sponsorship of activities at the Annual Meeting in New Orleans:

- Ani Lytics, Inc.
- Charles River Laboratories
- Chevron Research & Technology Company
- Dow Corning Corporation
- DuPont Haskell Lab for Toxicology and Industrial Medicine
- Eli Lilly and Company
- Exxon Biomedical Sciences, Inc.
- Frito Lay
- Genesys-Research, Inc.
- Hoffmann-La Roche, Inc.
- Karch & Associates, Inc.
- National Institutes of Health
- The Procter & Gamble Co.
- R.W. Johnson Pharmaceutical Research Institute
- Rhone-Poulenc
- SmithKline Beecham Pharmaceuticals
- Sterling Winthrop Pharmaceuticals Division
- TSI
- The Upjohn Company

Volunteers Needed

SOT is invited to exhibit at several national meetings each year. These meetings, often for minority students, are aimed at the brightest undergraduate students with science interests — many of whom are still deciding about careers and usually know very little about toxicology. Sometimes, invitations must be declined because of a lack of volunteers to assemble the SOT exhibit and/or represent the Society at these events. Since education is a very important component of the goals of SOT, we are trying to take advantage of as many of these opportunities as possible. To assist the Society in this effort, we are asking for volunteers to assemble the SOT exhibit at meetings in your area and to spend time staffing the exhibit and talking to interested students and mentors for at least part of the meeting. If you are interested, please contact **Dr. Gary O. Rankin**, Dept. of Pharmacology, Marshall University School of Medicine, Huntington, WV 25755-9310, or Fax: 3034/696-7391. Volunteers will only be contacted for meetings in their city or immediate area.

Member News

Meryl Karol, Ph.D., Vice President of SOT, was awarded the 1993 Rachel Carson Award from the Rachel Carson Institute. The award is presented to a woman who has demonstrated excellence and commitment in environmental education, research, or activism. Dr. Karol was recognized for her contributions in each of these areas beginning in 1970 when she was a Board member of the League of Women Voters and continuing to her current activities at the University of Pittsburgh.

Tobias Massa, Ph.D., has been appointed Director - Regulatory Affairs/Technical Support for Schering-Plough Research Institute. Dr. Massa assumes responsibility for providing technical support to U.S. regulatory affairs in the areas of biotechnology drug manufacturing, testing, and preclinical sciences on behalf of the company.

Robert G. Tardiff, Ph.D., has been elected by the Society for Risk Analysis to the post of President-Elect for 1993 and of President for 1994. The Society for Risk Analysis is a multidisciplinary scientific organization with chapters worldwide.

John A. Thomas, Ph.D., has been named Editor of The Toxic Substances Journal: Contemporary Topics in Chemical and Drug Research by Taylor & Francis, International Publishers. Dr. Thomas is a Professor of Pharmacology and Toxicology at the University of Texas Health Science Center at San Antonio.

David Warheit, Ph.D., received the 1993 Kenneth Morgareidge Award at the ILSI symposium "Toxic and Carcinogenic Effects of Solid Particles in the Respiratory Tract" recently held in Hannover, Germany. Dr. Warheit is a senior research toxicologist at Du Pont Haskell Laboratory for Toxicology and Industrial Medicine and his work has focused on the effects of inhaled asbestos fibers.

John H. Weisburger, Ph.D. M.D., Senior Member, American Health Foundation, Valhalla, NY, was honored with a fellowship by the Japanese Foundation for the Promotion of Cancer Research. In November through December 1992, he was at the National Cancer Center Research Institute, Tokyo for his continuing research on the health benefits of tea and tea polyphenols in lowering cancer risks.

SOT Membership Application Deadline

The next membership deadline is September 1, 1993. Please contact SOT Headquarters if you would like to receive revised application forms.

Chapter News

The Allegheny-Erie Regional Chapter of the Society of Toxicology held its annual Spring Meeting/Symposium on May 14, 1993 at the Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA. The topic for the symposium was "Toxic Carpet: A Hazard Under Your Feet?" Guest speakers included **Yves Alarie** of the University of Pittsburgh; **Rosalind Anderson** of Anderson Laboratories, Dedham, MA; **Judith Stadler** of E.I. du Pont de Nemours & Co., Newark, DE; **William Stott** of Dow Chemical, Midland, MI and **Richard Dudek** of Monsanto, St. Louis, MO.



During the Annual Spring Meeting/Symposium of the Allegheny-Erie Regional Chapter at the University of Pittsburgh, Dr. Mary Conner (left), President of the Chapter, looks on as Carroll Weil (second from left), and Dr. Charles Carpenter (right) present Dr. Yves Alarie (second from right) from the University of Pittsburgh with the first Carpenter, Smyth, Weil Career Achievement Award in Toxicology.

The Chapter named the award for three of its members who are considered to be among the "pioneers" in Toxicology: Dr. Charles P. Carpenter, Carroll S. Weil and the late Dr. Henry F. Smyth, Jr. The award was established to honor a distinguished member of the Chapter who is considered by a majority of the membership to have contributed significantly to the field of Toxicology.

AESOT's 1992 Graduate Student Research Award winner, **Teri Bagnell-Leonardo**, made a presentation of her research at the chapter's annual meeting. During the past year, Ms. Bagnell-Leonardo has worked on her project, "Investigation of Metabolism and Toxicity of Etheno-nucleotide Adducts in a Cancer Susceptible Murine Strain." She will be graduating with a Ph.D. in Toxicology from the University of Pittsburgh.

The AESOT Chapter recently granted a \$1500 scholarship to **Joseph Piccotti**, a graduate student in the Department of Pharmacology and Toxicology at Duquesne University. Mr. Piccotti received the scholarship for his grant proposal entitled "The Effect of Cocaine on Phytohemagglutinin-Stimulated T-Lymphocyte Proliferation."

SOT Journals

If you have not received your TAP or FAAT Journals, please contact the SOT office in writing by fax or mail, stating the missing issues.

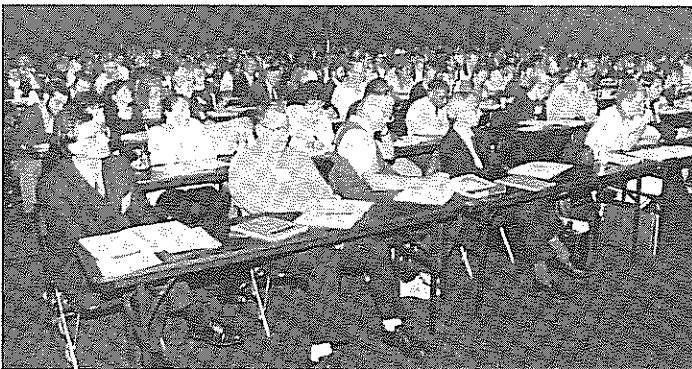


1992-93 Council

(front row, from left) Judith A. MacGregor, Treasurer-Elect; Donald J. Reed, Past President; John L. Emmerson, President; I. Glenn Sipes, Vice President; Meryl H. Karol, Vice President-Elect; R. Michael McClain, Treasurer. (Top row, from left) James S. Bus and John G. Dent, Councilors; Marion Ehrich, Secretary; Daniel Acosta, Councilor; Joan Walsh Cassedy, Executive Secretary; and Hanspeter R. Witschi, Councilor.

Society of Toxicology
New Orleans Convention Center
New Orleans, Louisiana
March 14-18, 1993
Highlights of the 32nd Annual Meeting

Society of NEW ORLEANS



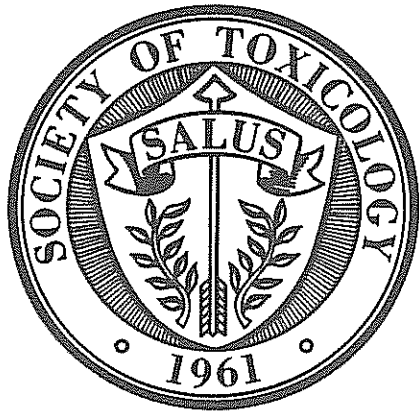
Despite the blizzard, attendance at the Continuing Education courses was high.



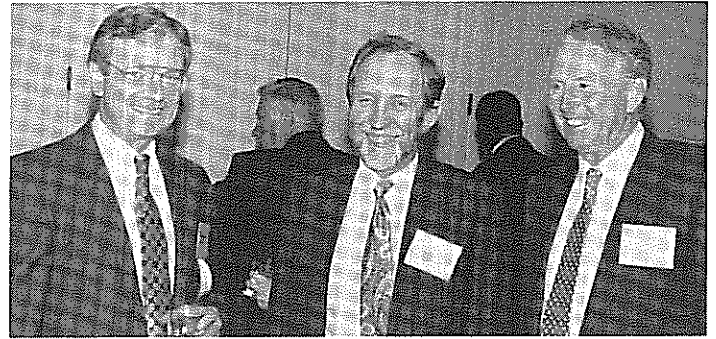
The poster sessions were well spaced, well lit and well attended.



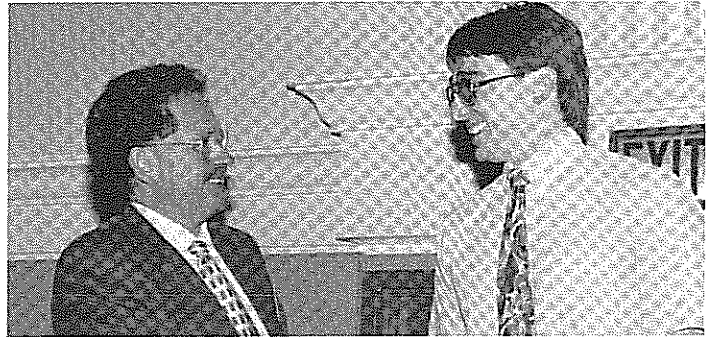
165 companies displayed their equipment and services in over 200 booths. For the first time, exhibitors could distribute nominal giveaways, which were well-received.



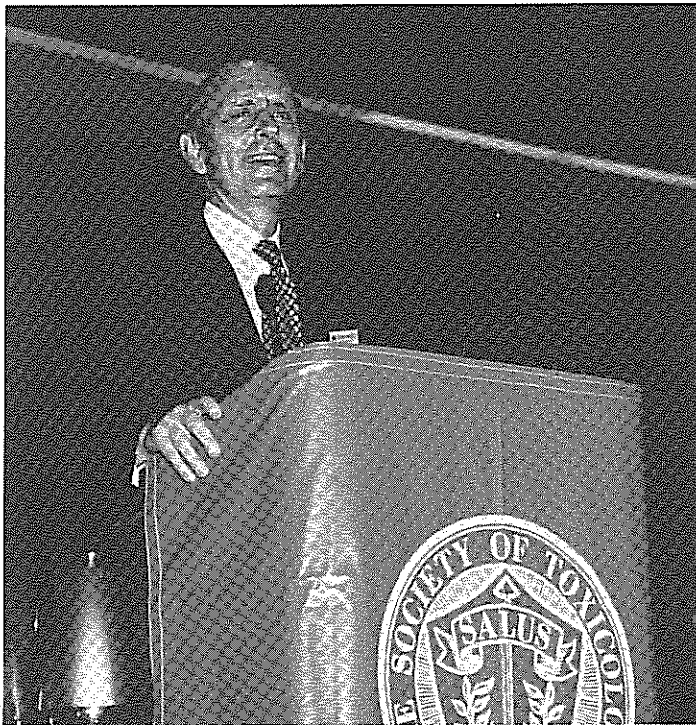
Toxicology CLEANS



During a reception, Treasurer Michael McClain (left) visited with Iain Purchase and Donald Hughes.



Gary Yost (left), chairperson of the Education Committee, conducted the presentation of the Graduate Student Fellowship Awards and presented the Hazleton Award to Michael Denny.



Plenary Speaker Judge Stephen Breyer attracted the largest attendance at an SOT event — approximately 2500 scientists.



Lois Lehman-McKeeman (left) presented the Procter & Gamble Graduate Student Fellowship to Regina Donohoe.



Bevin Engelward (right) accepted the Hoffmann-LaRoche Graduate Student Fellowship from Michael McClain.



The CIBA-GEIGY Graduate Student Fellowship was presented by Mitchell Sauerhoff (left) to Christopher Martenson.



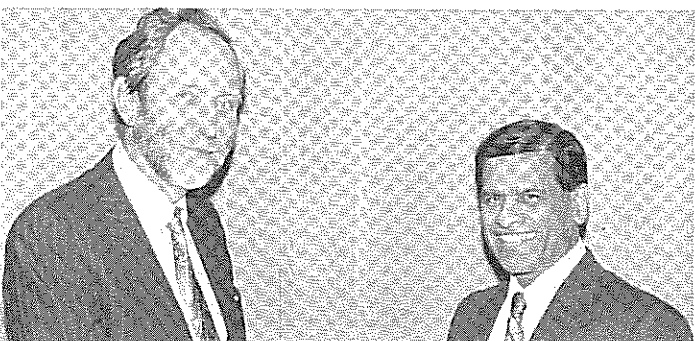
Congratulating Dr. Mehendale (second from left) on his presentation of the 1993 Burroughs Wellcome Toxicology Scholar Award Lecture are: Meryl Karol, Martha Peck, and SOT President John Emmerson.



Betty Kong (left) presented the Colgate-Palmolive Post-Doctoral Fellowship for in vitro Toxicology to Erika Cretton.



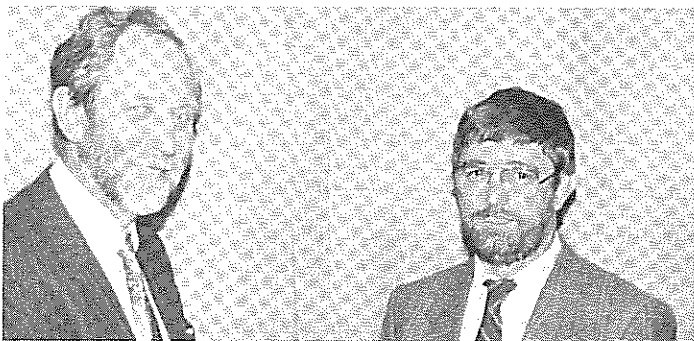
Meryl Karol (left) and Martha Peck flank the 1993 Burroughs Wellcome Toxicology Scholars, Leona Samson and Debra Laskin.



Iain Purchase (left) congratulated Zeneca Traveling Lectureship recipients Harihara Mehendale....



SOT Vice President-Elect Meryl Karol presented the Frank R. Blood Award to (from left) Richard Peterson, Robert Moore and Thomas Mably (first author). Missing from the photo is Robert Goy.



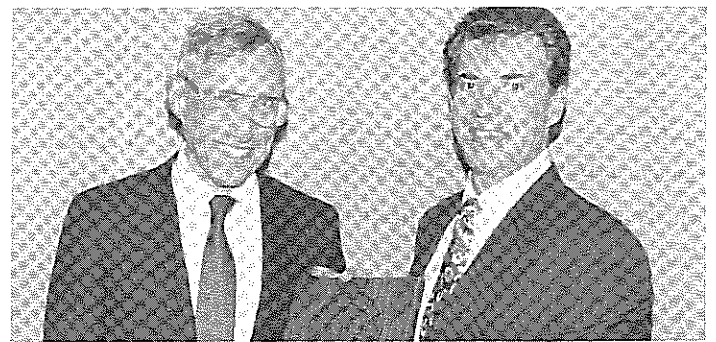
and Terrence Monks.



Curtis Klaassen (left) received the Toxicology Education Award from Councilor Daniel Acosta.



David Eaton (right) accepted the Achievement Award from Councilor James Bus.



Vice President Glenn Sipes (right) congratulated John Emmerson on his outstanding year as President, and presented him with a gavel and a plaque.



Councilor John Dent (left) presented the Arnold J. Lehman Award to Thomas Clarkson.



President John Emmerson found a moment during the week to relax with his wife, Karen.



Past President Don Reed (right) presented the Merit Award, the Society's highest honor, to John Doull.



1993-94 Council

(Front row, from left) John Emmerson, Past President; Glenn Sipes, President; Meryl Karol, Vice President; Jack Dean, Vice President-Elect. (Top row, from left) Councilors William Greenlee and Robert Roth, Secretary-Elect Jay Goodman, Secretary Marion Ehrich; Judith MacGregor, Treasurer; Daniel Acosta, Councilor; and Joan Walsh Cassidy, Executive Secretary. Missing from the photo is Hanspeter Witschi, Councilor.



President John Emmerson (left) thanked Councilor John Dent, Treasurer Michael McClain, and Councilor James Bus for their tremendous contributions to the Society.

Upcoming Conferences

The Toxicology Forum, July 12-16, 1993, The Given Institute, Aspen, CO. Contact: Charlene D. Anderson, Telephone: 202/659-0030.

Concepts and Mechanisms in Toxicology, July 21-23, 1993, University of Leicester, Contact: Dr. E.S. Harpur, Sterling Winthrop Pharmaceuticals Research Division, Willowburn Avenue, Alnwick, Northumberland NE66 2JH, England, Telephone: 0665/510111.

American Society for Pharmacology and Experimental Therapeutics 44th Annual Meeting, July 30 - August 3, 1993, San Francisco Marriot Hotel, San Francisco, CA. Contact: Mrs. Kay A. Croker, ASPET, 9650 Rockville Pike, Bethesda, MD 20814-3993. Telephone: 301/530-7060.

Chemical Mechanisms in Toxicology Course, August 2-4, 1993, Washington, DC. Contact: Ms. Pamela McAnnally, American Chemical Society, Continuing Education Division, 1155 Sixteenth Street, NW, Washington, DC 20036. Telephone: 202/872-4507.

Immunological Issues in the Safety Evaluations of Protein Therapeutics, August 23-24, 1993, Ithaca, NY. Contact: Rodney Diedert, Ph.D., 216 Rice Hall, Cornell University, Ithaca, NY 14853. Telephone: 607/255-8008.

Introduction to Industrial Toxicological Pathology, September 13 - 17, 1993, Champaign, IL. Contact: Dr. Wanda M. Haschek-Hock, Department of Veterinary Pathobiology, University of Illinois, 2001 South Lincoln Avenue, Urbana, IL 61801. Telephone: 217/333-4755, Fax: 217/333-4628.

Nasal Toxicity and Dosimetry of Inhaled Xenobiotics: Implications for Human Health, September 20-22, 1993, Washington Duke Inn and Golf Course, Durham, North Carolina. Contact: Dr. Fred J. Miller, Chemical Industry Institute of Toxicology, P.O. Box 12137, Six Davis Drive, Research Triangle Park, NC. Telephone: 919/541-2070, Fax: 919/541-9015.

International Society for the Study of Xenobiotics, 5th North American Meeting, October 17-21, 1993, Hosted by Center for Toxicology, University of Arizona, Sheraton El Conquistador Resort Hotel, Tucson, AZ. Contact: Bert Sanchez, 602/626-2433.

Society of Toxicology 1994 Annual Meeting, March 13-17, 1994, Loews Anatole Hotel, Dallas, TX. Contact: Dawn Caruso, Society of Toxicology, 1101 14th Street, Suite 1100, Washington, D.C. 20005-5601. Telephone: 202/371-1393, Fax: 202/371-1090.

ICT VII, July 2-5, 1995, Seattle, WA. Contact: Jada Hill, The Sterling Group, Corporate Woods Building #51, 9393 West 110th Street, Suite 253, Overland Park, KS 66210. Telephone: 913/345-2228.

Publications of Interest

Asbestos Control and Medical Treatment: Volume 7 of the Sourcebook on Asbestos Diseases, George A. Peters, J.D., C.S.P., P.E., Barbara J. Peters, J.D., Butterworth Legal Publishers, 90 Stiles Road, Salem, NH 03079, 800/548-4001.

Chemically Induced Birth Defects, Second Edition, James L. Schardein, Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 10016, 212/696-9000.

Drug Stereochemistry, Analytical Methods & Pharmacology, Second Edition, Irving W. Wainer, Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 10016, 212/696-9000.

Effective and Safe Waste Management: Interfacing Sciences and Engineering with Monitoring and Risk Analysis, Robert L. Jolley, Rhoda G.M. Wang, CRC Press, Inc., 2000 Corporate Blvd., N.W., Boca Raton, FL 33431, 407/994-0555.

Health Risk Assessment: Dermal and Inhalation Exposure and Absorption of Toxicants, Rhoda G.M. Wang, James B. Knaak, Howard I. Maibach, CRC Press, Inc., 2000 Corporate Blvd., N.W., Boca Raton, FL 33431, 407/994-0555.

Immunopharmacology in Autoimmune Diseases and Transplantation, Hans Erik Rugstad, Liv Endresen, Oystein Forre, Plenum Press, 233 Spring Street, New York, NY, 212/620-8000.

Introduction to Environmental Toxicology, Wayne G. Landis, Lewis Publishers, 121 South Main Street, P.O. Drawer 519, Chelsea, MI 48118, 313/475-8619, Fax: 313/475-8650.

Life Sciences: Featuring Pharmacology, Pergamon Press, 655 N. Alvernon Way, Suite 212, Tucson, AZ 85711, 602/321-7778, Fax: 602/321-7781.

Office of Research Integrity Newsletter, U.S. Public Health Service, Office of Research Integrity, Suite 700, 5515 Security Lane, Rockville, MD 20852, 301/443-5300.

Protein Pharmacokinetics and Metabolism, Bobbe L. Ferraiolo, Marjorie A. Mohler, Carol A. Gloff, Plenum Press, 233 Spring Street, New York, NY, 212/620-8000.

Receptor Data For Biological Experiments, H.N. Dodds, J.C.A. van Meel, Ellis Horwood Limited, Market Cross House, Cooper Street, Chichester, West Sussex, P019 1EB, England.

Retinoids in Clinical Practice: The Risk-Benefit Ratio, Gideon Koren, Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 10016, 212/696-9000.

SARA Title III: Hazardous Chemicals and the Right to Know, Executive Enterprises Publications Co. Inc., 22 West 21st Street, New York, NY 10010-6990, 800/332-1105.

Toxicology of the Lung, Second Edition, Donald E. Gardner, James D. Crapo, Roger O. McClellan, Raven Press, Ltd., 1185 Avenue of the Americas, New York, NY 10036, 212/930-9500.

Working With Congress: A Practical Guide for Scientists and Engineers, William G. Wells, Jr., American Association for the Advancement of Science, AAAS Press, 1333 H Street, NW, Washington, DC 20005, 202/326-6736.

Placement Services

Associate Scientist Preclinical

Molecular Biosystems, Inc. (MBI), a leader in the development and manufacturing of contrast agents for medical imaging, including ultrasound and MRI, is seeking a strong candidate to join our expanding preclinical team.

Responsibilities include the initiation, design and execution of preclinical ADME studies in support of product development.

Successful candidate must have a PhD in Pharmacokinetics w/ 3+ years' postdoc industrial experience in drug metabolism, INDs, NDAs, and animal studies. This position reports to the Director of Preclinical Studies.

We offer competitive salaries, a comprehensive benefits package and a pleasant working environment. Qualified candidates should submit resume with salary history to: MBI, HR Dept. A08-94, 10030 Barnes Canyon Road, San Diego, CA 92121. Job Hotline: (619) 452-7393 x411. Equal Opportunity Employer.

Drug Metabolism/Kineticist

The position oversees all preclinical and clinical kinetics research for one or more ongoing programs. It involves development and validation of methods, setting up kinetic studies (internal and contract), and producing the kinetic models and reports in support of IND submission and in clinical studies. Drug candidates include proteinaceous materials and small molecules. Assay types range from radioimmunoassay and ELISA techniques to enzyme assays and HPLC applications.

The successful candidate will have a M.S. and at least 4 years' related experience or a PhD with at least 2 years' of related experience in biochemistry, pharmacology, toxicology, analytical chemistry or related discipline. The position requires knowledge of current practices in kinetic modeling in animals and man, and computer systems which support such studies. The individual will have knowledge of GLP practices and excellent communication and report writing abilities and be able to operate independently. Knowledge of necessary surgical and animal-handling techniques involved in kinetic studies would be a plus. Contact: Dr. David B. Strong, Cephallon, Inc., 145 Brandywine Parkway, West Chester, PA 19380. (215) 344-0200 ext. 141.

Postdoctoral Training in Laboratory Animal Medicine

The Milton S. Hershey Medical Center and Bristol-Myers Squibb Pharmaceutical Research Institute announce the availability of a jointly sponsored Postdoctoral Fellowship in Laboratory Animal Medicine.

The program includes a three-year period of training in clinical, management and research components centered at Pennsylvania State University and Bristol-Myers Squibb facilities. The program is designed for graduate pharmaceutical industry.

Training components include didactic and practical studies in biomedical technology, laboratory animal medicine and science and management in addition to a research preceptorship in AAALAC accredited facilities. The program is compatible with the requirements for certification by the American College of Laboratory Animal Medicine.

Information on this program is available by contacting Dr. C. Max Lang, Department of Comparative Medicine, Pennsylvania State University, P.O. Box 850, Hershey, PA 17033. Pennsylvania State University and Bristol-Myers Squibb are Affirmative Action/Equal Opportunity Employers. Women and Minorities are encouraged to apply.

Toxicologist

The Goodyear Tire & Rubber company, one of the leading manufacturers in the world of polymer and chemical products, is seeking an Industrial Toxicologist to work in the Corporate Research Toxicology and Regulatory Compliance Section.

The selected candidate will coordinate contract toxicology testing involving: the review, evaluation, and specification of testing protocols; the evaluation of data; and the audit of toxicology testing laboratories. Additionally, will perform reviews and evaluations of regulations; assess health effects and toxicological properties of new and existing materials, as well as answer customer inquiries for toxicological information.

Qualified candidate must have a BS in chemistry or one of the biological sciences, an advanced degree (s) in Toxicology, or a closely-related graduate degree with major in Toxicology. Must also have a minimum of 5 years recent experience in evaluation of toxicological data and studies, international chemical regulatory compliance, and health-based risk assessments. Expert knowledge of toxicological testing and TSCA a must.

The Goodyear Tire & Rubber Company offers a comprehensive wage and benefit package. Interested candidates who desire to meet rewarding challenges should direct their resume to: C.B. Hilsdon, The Goodyear Tire & Rubber Company, 1144 E. Market St., Akron, OH 44316. An Equal Opportunity Employer M/F/D/V. Applicants must be lawfully authorized to work in the U.S.

Health Scientists

A leading scientific and technical consulting firm, ENVIRON provides a broad range of chemical risk assessment and environmental management services to private and public sector clients who are facing the

complex problems associated with the presence of potentially hazardous substances in the environment.

From our offices in Arlington, VA; Princeton, NJ; Emeryville & Irvine, CA; and Houston, TX, we provide expert technical assistance and strategic support to leading national law firms, Fortune 100 companies, national trade associations, insurance professionals, and government agencies.

We are looking for experienced and entry-level Health Scientists with BS/MS/PhD degrees in biology, epidemiology, pharmacology, public health, toxicology or related disciplines, and familiarity with the concepts and methodologies for evaluating the risk from human exposure to toxic chemicals in the environment. Interested candidates should send resumes, writing samples and transcripts to Dr. Vasilios Frankos, ENVIRON Corporation, 4350 N. Fairfax Drive, #300, Arlington, VA 22203.

Risk Assessment Manager positions are available in our Emeryville, CA office. Please send application materials for this position directly to Dr. Stephen Dizio, ENVIRON Corporation, 5820 Shellmound Street, #700, Emeryville, CA 94608. ENVIRON offers competitive salaries and excellent benefits, and is an equal opportunity employer.

Professor

A Professor/Associate/Assistant Professor position is open in the Department of Pathology, Michigan State University. A major responsibility of this position is to provide leadership for the Department's graduate programs and overall research efforts in pathotoxicology, environmental pathology and related areas. These responsibilities include participation in teaching of professional and graduate students. Development of an independent research program in a selected area of pathology related to the above areas is to be encouraged. MSU currently has strong programs in pathotoxicology in areas related to environmental pathology; this position is seen as an integral component of these campus-wide activities. Minimum qualifications: Applicants must possess the DVM degree or equivalent and postdoctoral training with an advanced degree (MS or PhD). Eligibility or qualification by the American College of Veterinary Pathologists is preferred. Salary is negotiable. Date available is July 1, 1993. Application deadline is June 1, 1993 or until position is filled. Position approval is pending. Contact Dr. Charles Mackenzie, Professor and Chairperson, Department of Pathology, Michigan State University, East Lansing, MI 48824-1316; phone 517-353-9160 for further information about this opportunity-filled position.

1. Refer to #VM253E
2. Position approval pending with the Office of the Provost.

Michigan State University is an affirmative action/equal opportunity institution.

Obituary

Dr. Wayland J. Hayes Jr., 75, professor of Biochemistry (Toxicology), Emeritus, who was dedicated to studying the effects of pesticides in mammals, passed away recently. Dr. Hayes was an active member of SOT and served as President in 1971 and 1972. He received the SOT Merit Award in 1989. Dr. Hayes was born in Charlottesville, VA in 1917. He graduated from the University of Virginia in 1938 and received an M.A. degree in 1940 and a Ph.D. degree in 1942 from the University of Wisconsin, where he specialized in zoology and physiological chemistry. He returned to the University of Virginia and received his M.D. degree in 1946.

Dr. Hayes served as a toxicologist with the U.S. Public Health Service for nearly twenty years before becoming a professor of Biochemistry at Vanderbilt University School of Medicine. Dr. Hayes was an author of two books and more than 100 papers on toxicology. He is survived by his wife, Barnita, a son, four daughters, and 10 grandchildren.

SOT Careers Exhibit Available

For several years now, the Society of Toxicology Careers Exhibit, prepared by Dr. Harihara Mehendale and the ad hoc Tox 90s Educational Issues Task Force, has been used to increase student awareness about the field of toxicology and the opportunities for a career in toxicology.

Although the exhibit has mainly been used at national meetings, this exhibit is available, free of charge, for members to use locally or regionally for career or research days, science fairs, campus meetings, etc. to inform high school and college students about career opportunities in toxicology. These students often know very little about toxicology or how to find out information about becoming a toxicologist and find the information provided in the exhibit interesting and exciting.

The exhibit presents information about what toxicology is, what toxicologists do in their jobs, academic requirements, salaries for students and professionals, and the geographic distribution of SOT members. The exhibit was recently updated to provide current information and will continue to be updated regularly. In addition to the exhibit, a variety of literature and SOT program information is available for distribution to students. If you are interested in using the Society of Toxicology Exhibit for an activity in your area, please contact SOT Headquarters.