

Society of Toxicology NEWSLETTER

JANUARY/FEBRUARY 1993

SOT By-Laws Revision

Every year, the SOT Council undertakes a complete review of the Constitution and By-Laws. This extremely valuable exercise has traditionally been the assignment of the Vice President-Elect and serves as an excellent vehicle to ensure complete familiarity with these cornerstones of the Society.

Over the past year, this review has been enhanced by the Council's initiation of a Long-Range Planning process. Council members have thoroughly reviewed the Society's activities and functions, including administration, By-Laws, educational activities, committees, and Annual Meeting.

In the course of the By-Laws review, several substantive amendments were suggested. Other minor, technical corrections were also noted, generally to ensure consistency within sections of the By-Laws.

During its November 1992 meeting, the SOT Council approved the following substantive proposed amendments to the By-Laws of the Society of Toxicology:

ARTICLE FOURTH

Section 5. Technical Committee.

The Technical Committee had been created to: "investigate technical problems referred to it by the President or which are recognized by the Committee and upon which the Society may be asked to express an opinion or to actively participate in their resolution." Two members were appointed annually for a three-year term.

Council voted unanimously to disband this relatively inactive committee as the By-Laws provide for the creation of ad hoc committees by Council, and the SOT membership would be better served by the creation of an ad hoc committee to address specific questions when they arise.

Section 8. Regulatory Affairs and Legislative Assistance Committee.

Council voted unanimously to expand the eligibility for service on this committee, by deleting the requirement of voting (Full or Retired Full) membership. This amendment will provide greater opportunities for committee service by Associate Members of the Society.

Section 9. Animals in Research Committee.

Similarly, Council unanimously voted to expand the eligibility for service on this committee, by deleting the requirement of voting membership.

Two New Specialty Sections Formed

At its November 1992 meeting, the SOT Council approved the formation of two new Specialty Sections: "Regulatory and Safety Evaluation" and "Food Safety." The new sections will encourage proactive communication and interactions among toxicologists within these specialties. They will sponsor scientific and educational programs including symposia, poster and platform sessions, workshops, and continuing education courses on current scientific information in their areas of toxicology.

The Regulatory and Safety Evaluation Specialty Section, organized by **Frances A. Mielach, Ph.D.**, seeks to encourage interaction among toxicologists in government regulatory agencies, related industry, and academia regarding current issues in regulatory biologics, medical devices, foods, veterinary products, and commercial chemicals including pesticides. Scientific regulatory issues dealing with chemicals and products in the environment are also included.

The Food Safety Specialty Section, organized by **Stanley T. Omaye, Ph.D.**, seeks to represent the significant number of SOT members who work as food toxicologists and serve as experts in the area of food safety. It will give members the opportunity to establish stronger interactions and identify critical scientific resources for food safety within SOT.

The first organizational meeting of both of these sections will be held on Monday, March 15, 1993, at 5:00 p.m., at the Hyatt Regency Hotel during the SOT Annual Meeting in New Orleans (see the hotel lobby board for exact locations). All interested members are welcome to attend. If you are not able to attend, please send a fax SOT Headquarters expressing your interest! The fax number is (202) 371-1090.●

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Society of Toxicology
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Deadline for next issues:
April 10, 1993
June 10, 1993
August 10, 1993
October 10, 1993

1993 Annual Meeting:
March 14-18
New Orleans, LA

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

I keep a file called "philosophical items" to which I often return for wisdom and amusement. Among the articles I have saved is a brief dissertation by Dr. Karl Beyer, entitled "Perspectives in Toxicology," which is as relevant today as it was in 1965.* In his summarizing remarks, he noted that "The question properly posed to the toxicologist in one way or another is, "Is this agent safe for its intended use?" not "Is it safe?" He can no more escape making such a judgment than he can ever hope to obtain all the evidence he would like to have on which to base that judgment."

Behind all the faces of toxicology one recognizes the first question as a common bond. No matter how detached or pure the research, if, as a goal, the investigator seeks knowledge that leads to an understanding of the adverse effects of a substance on a biological system, that investigator is a toxicologist. And the collective product of our individual efforts, whether in research, in teaching, or in evaluation, leads ultimately to one end: a body of information on which judgments of risk are based. The information distilled from our activities inevitably enters the marketplace of ideas from which public policy emanates. The questions of risk and safety continue to be asked, but too often the context of use is omitted: a naive public generally asks only, "Is it safe?" Unfortunately, the messengers that bridge the interface between scientific fact and public policy are not disinterested parties.

To a world increasingly concerned with matters of health and safety, the adverse effects of chemicals are ready-made for the media. The driver of a vehicle fueled by sensation is not a reliable custodian of fact. So, it is not surprising that, in the transfer of scientific information the message is often garbled, sometimes purposefully distorted and frequently inaccurate. While the problem is pervasive, the remedy is elusive. There probably are no grand solutions, but there are some steps that we, as individuals, can take that are positive and tenable.

As Dr. Beyer reminds us, we can never obtain all the information before a judgment on use is demanded and, furthermore, the question of safety is properly related to the conditions of use. I would like to suggest two goals that, I think, fit our purposes, each of which may be useful in guiding our thinking:

1. to replace assumptions with facts; and
2. to re-couple dose and response.

These goals speak to problems that are self-evident and to actions clearly implied, so that extensive elaboration is not warranted.

Assumptions of risk and safety have always been at the heart of the toxicologist's duty and dilemma. To minimize assumptions in the judgment of safe use has always been a central goal of our discipline. Research on a number of fronts, for example, seeks a better definition of the appropriate dose. While some strive to apply molecular dosimetry, there continue to be many less complicated opportunities not taken. Definition of dose on the basis of concentration in the target tissue is a case in point. Extrinsic dose still serves (and should serve) as the basis of most safety evaluations. However, when the toxic end-point is cancer and/or the public costs of regulation enormous (in other words, when the stakes are high), steady-state tissue concentrations should be determined and used as a more appropriate measure of dose.

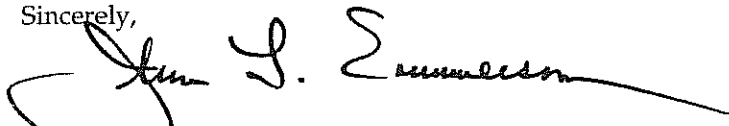
While consideration of the dose is paramount in the science of toxicology, in the public media it is almost entirely absent. Dose and response have been uncoupled in the public mind. The adverse effect, the response, is featured: the conditions in which the response is seen are never described. As a consequence we find members of the lay public and most "science" graduates believing that all substances that are toxic at some level are insidiously toxic at much lower levels. Toxicity becomes an inherent property of a substance expressed at all

levels of exposure. Contributing also to this state of mind is the generic labelling of a chemical as a "neurotoxin" or a "carcinogen." What is a convenience for us in our scientific discussions and literature works to our detriment in public discourse. We need to be ever cognizant of the potential misuse of information. If we are not attentive to our nomenclature and the context within which we depict adverse findings, in the long run, we exacerbate our problems.

We need also to continue to invest in key educational initiatives. The SOT Committee on Public Communications is preparing a slide set on risk assessment for our members' use. This, and the upcoming Forum on Undergraduate Education at our Annual Meeting, are current activities that are consistent with a vision that sees our discipline becoming more effective in communicating our knowledge to a public that sorely needs it.

*Beyer, Karl H., Jr. (1966) Perspectives in Toxicology. Toxicol. Appl. Pharmacol. 8 1-5 (Text of a speech given by Dr. Beyer at the dinner of the Society of Toxicology at its Fourth Annual Meeting. 1965).

Sincerely,



John L. Emmerson, Ph.D.

CAAT Call For Research Proposals

The Johns Hopkins Center for Alternatives to Animal Testing (CAAT) is soliciting proposals for the 1994-95 grant period. These research proposals should provide fundamental knowledge needed to develop alternative methods to whole animals for the safety evaluation of commercial products.

CAAT is soliciting projects focused on investigating the fundamental knowledge needed to develop alternative methods to the use of whole animals for safety/hazard evaluation, risk assessment and efficacy. The investigation of *in vitro* approaches to evaluating cellular and target organ toxicity is encouraged. Some examples are: developing new cell structure systems, applying current testing methodology to human cells/cell lines, and designing new, mechanistic, state-of-the-art methods that may utilize cultured cells, computer technology (e.g. structure-activity relationships), or any other system applicable to toxicity/efficacy evaluation. At the present time CAAT does not fund projects relating to carcinogenicity or mutagenicity.

To apply, submit a one page preproposal abstract using the CAAT Preproposal Abstract Form (94-95) to Mrs. Joan Poling, CAAT, 615 N. Wolfe Street, Baltimore, MD 21205, 301/955-3343, Fax: 301/955-0258. You will be notified of acceptance and sent guidelines for preparation of proposals. **Deadline for submission of Preproposal Abstracts is March 1, 1993.**●

Continued from page 1

Section 11. Ethics Committee.

The Ethics Committee had been created to "provide guidelines and recommendations to Council on ethical behavior as embodied in the Code of Ethics." Two members were appointed annually for a two-year term; the Immediate Past President serves as Chair.

Council voted unanimously to disband this relatively inactive committee, as a procedure is now in place to refer questions of ethical concerns to the Society's legal counsel for review and recommendation to Council.

Section 12. Placement Committee.

Council voted unanimously to increase the number of members of the committee, from six to nine, and also to delete the requirement for voting membership. This committee works extremely hard during the Annual Meeting, essentially foregoing attendance at the scientific sessions in order to assist their colleagues who are seeking candidates or positions. Additional members of the committee would permit greater sharing of the workload during the Annual Meeting. Three members would be appointed annually for three-year terms.

ARTICLE FIFTH

Board of Publications

Section 1. Council voted unanimously to require voting membership for members of the Board of Publications. It had been the tradition of Council to appoint only voting members. This amendment institutionalizes the practice.

All of the amendments are formally presented on the enclosure to this newsletter, entitled "Proposed Amendments to the By-Laws." In accordance with the By-Laws, these amendments will be discussed during the Annual Business Meeting, Tuesday, March 16, 4:30 p.m. at the New Orleans Convention Center. A mail ballot will be circulated to the voting membership within one month following the Annual Business Meeting.●

Code of Ethics Reminder

The Society of Toxicology is dedicated to developing knowledge for the improvement of the health and safety of living beings and the protection of their environment.

In attaining this objective, each member is expected to maintain high ethical standards, and to this purpose, a code of ethics, which requires a personal commitment, is printed annually in the SOT Membership Directory.●

1993 Dues Are Due!

A reminder: Your 1993 dues must be received at Headquarters by March 31, 1993, in order for you to continue to receive your journals. Please note that you may via check, money order, MasterCard, Visa, American Express or Diners Club.●

Society of Toxicology NEW ORLEANS

NASA Astronaut To Speak At Annual Meeting

Dr. Francis (Drew) Gaffney, a NASA astronaut and medical doctor, is among the scheduled speakers at "Space Exploration and Toxicology: A New Frontier," an Annual Meeting symposium sponsored by the Inhalation Specialty Section. Dr. Gaffney, who is also a Professor of Medicine at Vanderbilt University and a Colonel in the United States Air Force, will deliver a presentation entitled "Physiological Changes in Zero Gravity."



Dr. Francis Gaffney, NASA

The symposium centers on Space Toxicology — the study of the effects of living in habitats outside the earth's gravitational field. While in space, astronauts can be exposed to potentially toxic contaminants that exist in small, enclosed living spaces and, as a result of the altered physiological status under microgravity, human body responses to these contaminants may be different than those found in earth-based studies. Ultimately, Space Toxicology seeks to develop ways to protect astronauts' health and well-being and to ensure the success of manned space missions.

The symposium will also feature presentations by G. Oberdorster, University of Rochester; R. J. White, National Aeronautic and Space Administration; T.W. Clarkson, University of Rochester; D.E. Gardner, ManTech Environmental Technology; G.R. Taylor, NASA/Johnson Space Center; L. Putchá, NASA/Johnson Space Center and R.D. Thomas, National Research Council.●

Special Poster Session for Visiting Students

The *ad hoc* Tox 90's Educational Issues Task Force and the SOT Education Committee will host a special poster session for visiting minority undergraduate students on Monday, March 15, 1993, 9:30 a.m.-11:30 a.m. at the Annual Meeting in New Orleans. The session has been organized to demonstrate the diversity of the discipline of toxicology to the visiting undergraduates, as well as to others attending the Annual Meeting who are interested in learning about the variety of areas associated with toxicological investigations. This session will provide an excellent opportunity to interact with potential minority toxicology students. The session will be conducted by scientists who volunteered to present their abstracts at this special session in addition to the regular sessions to which their abstracts have been assigned by the SOT Program Committee. Last year in Seattle, more than 25 posters were displayed and over 300 people attended. More than 59 presenters representing a variety of subdisciplines within the field of toxicology have volunteered to participate in the session in New Orleans. All SOT members are invited to participate in this session. For more information, or if you have questions, contact Dr. Gary Rankin (304) 696-7313 or Dr. Claude McGowan (908) 298-4562.●

SOT Car Rental Discounts

SOT members are eligible for year-round discounts on rental cars from Avis. This discount can also be used with any other special promotional rate offered by Avis.

For more details, call 1-800-331-1212 or 1-800-222-AVIS. The SOT Avis Worldwide Discount number is T524006. **Remember this offer if you need a car during the SOT Annual Meeting in New Orleans.●**

Educational Program And Poster Sessions

The education committee will be sponsoring an educational program to introduce the discipline of toxicology to interested undergraduate minority science majors and their advisors at 2:00 p.m. on Sunday March 14, 1993 at the Annual Meeting in New Orleans.

The program will be initiated with short, basic presentations: what is toxicology, the relevance of toxicology to minorities, how to find and get into a graduate program. Presenters will be **Johnnie Early** (Florida A&M University), **Curtis Klaassen** (University of Kansas) and **Kenneth Olden** (National Institute of Environmental Health Sciences). A panel discussion led by toxicologists in graduate school, post-doctoral programs, and early in their careers will follow. Panelists including: **Dwayne Hill**, **Melecita Archuleta**, **Jose Manautou** and **David Blackwell** will respond to questions from students in the audience and provide additional information to supplement that provided by the other speakers.

After a short break, moderator **Faye Calhoun** (National Institutes of Health) will organize attendees into small focus groups for further discussion. Focus groups will be organized so that the science advisors of the students can interact with SOT members who are faculty in other universities. Other focus groups will provide an opportunity for small groups of minority students to interact with members of SOT to further address questions of the students and share additional experiences.

This afternoon program promises to be very exciting and rewarding and the SOT Education Committee encourages SOT members, graduate students and others interested in toxicology education and early recruitment of minorities to attend this session. There will be space for graduate programs to provide their literature for the students and advisors in attendance.

Among the individuals who will be in attendance are science students and their advisors from the New Orleans area, as well as approximately 50 students and 8 advisors from across the country who have received travel funding from NIH and R.W. Johnson Pharmaceutical Research Institute grants awarded to the SOT Education Committee to encourage recruitment of minorities into the field of toxicology.

On Monday morning, March 15, there will be a special poster session which has been organized for the minority students and advisors. (See article on page four.) Most of the students and their advisors will also be attending the SOT meeting on Monday afternoon and will seek out platform presentations or poster sessions of special interest to them. Several SOT members have volunteered to serve as mentors for the students and advisors who will be attending the program for minority students. Mentor volunteers are still needed. If you are willing to serve as a mentor please contact Michele Medinsky at CIIT, 919-541-2070. ●

SOT Thanks 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; to date sponsors include:

Ani Lytics, Inc
Charles River Labs
Dow Corning Corporation
Eli Lilly and Company
Exxon Biomedical Sciences, Inc.
Genesys Research, Inc.
Karch & Associates, Inc.
Eli Lilly and Company
National Institutes of Health
The Procter & Gamble Co.
R.W. Johnson Pharmaceutical Research Institute
Rhone Poulenc
SmithKline Beecham Pharmaceuticals
Sterling Winthrop Pharmaceutical Division
TSI
The Upjohn Company

We would welcome inquiries regarding opportunities for sponsorship at the upcoming SOT 1993 Annual Meeting. ●

Scala Lectureship and Award Endowed at UMDNJ

The Scala Lectureship and Award in honor of SOT Past President **Robert Scala**, who recently retired, is now endowed at UMDNJ. The selection committee for the award includes **Drs. Edward Bresnick, John Doull, Michael Gallo, Henry Heck, Emil Pfitzer, Robert Scala, and Robert Snyder**. No final selection has been made. The lecture will be given at UMDNJ in the Spring. For more information contact **Dr. Bernard Goldstein** at (908) 932-0205. ●

The Toxicologist

SOT members in the U.S. and Canada will receive the Program and *The Toxicologist* (abstracts volume) prior to the meeting, as will U.S. and Canadian non-members registered for the Annual Meeting by January 26, 1993. SOT members and non-member pre-registrants outside the U.S. and Canada, as well as non-members in the U.S. who register after January 26, will receive the Program and *The Toxicologist* at the registration desk on-site. SOT members outside the U.S. and outside Canada who do not attend the meeting will receive their copies after the meeting. A reminder: Please bring your copy of the Program and *The Toxicologist* with you to the meeting. Additional copies will cost \$15 each on-site. ●

Guidelines for the Organization of a Symposium for Presentation

Introduction

The Society of Toxicology encourages presentation of symposia on timely topics at its Annual Meeting. Symposia can be valuable for presentation of developing new data, or of new concepts in a way that crystallizes thinking in particular areas. The symposium format also helps investigators keep abreast of developments in fields not intimately related to their major interests. The Program Committee is responsible for inclusion of symposia in meetings of the Society and encourages the submission of proposed symposia. The total time assigned for presentations and discussions may be less than, but not exceed, three hours per symposium.

Organizing Symposia

Symposia may be proposed by any member, Specialty Section or Chapter of SOT. Proposals intended for presentation at the following year's Annual Meeting must be submitted by April 15. Proposals must be communicated in writing to the chairman of the Program Committee, the Vice President of the Society. The letter should present reasons as to why the symposium is desirable and give some details on the proposal. The following points should be addressed:

- 1) Justification of need for a symposium in the particular field. The number of symposia approved will be limited and the justification will be important in the Committee's evaluation. The justification should include the timeliness of the topic and whether a similar symposium has been presented at a scientific meeting in the recent past. Consultation with the appropriate SOT Specialty Section is encouraged.
- 2) Proposed title.
- 3) Chairperson(s) (must be members of SOT).
- 4) Names of proposed speakers, their professional affiliation, SOT membership status, title of their presentations, and a one or two sentence synopsis of their topic (a maximum of two speakers per institution is recommended).
- 5) The intended year of presentation of the symposium.
- 6) Financial requirements, if any. (SOT will provide financial assistance to a maximum of one non-SOT member speaker per symposium.)
- 7) Specialty Section endorsement or Specialty Section financial sponsorship.
- 8) Publication plans, if any.

Approval of Symposia

After receipt of a proposal, the chairman will present it to the next meeting of the Program Committee in May. The deadline for submitting symposia proposals is April 15 each year. Sponsors are encouraged to submit proposals as early as possible to ensure adequate review time. The results of committee action will be transmitted promptly to the initiator(s) by the chairman of the Program Committee. If the symposium is approved, the chairman of the Program Committee will then provide further instructions concerning follow-up correspondence with speakers, completion of the symposium overview and speaker abstracts, finalization of the program, date of the symposium, and publication procedures if it is to be published.

Publication

All SOT-sponsored symposia come under the general guidelines for publication of SOT-related activities, i.e., the editors of the official journals, TAP and FAAT, have first right of refusal regarding publications from the SOT symposia. If the symposium organizers wish to compile papers for publication, they must first communicate with the editors of the journals to ascertain their interest in publishing the symposium. If neither of the editors are interested, then the organizers are encouraged to publish independently. It is important, if the editors feel that a symposium subject is appropriate, that this high quality material be published in one of the SOT journals.

Financial Assistance from SOT

There is no honorarium provided. Limited financial assistance may be available to support the participation of non-member speakers. This amount must be negotiated between the initiator and the chairman of the Program Committee PRIOR to making firm commitments to speakers. SOT policy is to fund the travel of no more than one non-member per symposium. A sponsoring Specialty Section can fund the travel of one additional non-member per symposium. There is no financial support for the participation of SOT members in a symposium.

Negotiations with Tentative Speakers

If initial speaker contact is not made by letter, it is best to follow up with a letter that presents (1) an outline of the symposium; (2) the names of other proposed speakers; (3) the proposed date and place (year, month, and meeting site); (4) financial assistance available, if any.●

SOT Welcomes New Corporate Associate Members

SOT is pleased to welcome Sankyo Company, Ltd. of Shizuoka, Japan; Paracelsian, Inc. of Ithaca, NY; and Southern Research Institute of Birmingham, AL as a new Corporate Associate Member.●

Graduate Student Travel Awards

SOT will fund the travel of 78 graduate students to the 1993 Annual Meeting in New Orleans. The number of applicants was high, with 114 students who will present research papers as first authors applying for sponsorship. Successful applicants had not previously received travel funds and were highly ranked by the program directors at the universities at which they are doing their graduate work. Factors contributing to disapproval were a previous travel award, awards to students ranking higher by program directors at the universities from which the applicants were received, and seniority.

Applications for graduate student travel awards in 1992 have increased over previous years. In 1986, SOT funds sponsored 56 awards from 68 applications; in 1987, 55 of 66; in 1988, 53 of 59; in 1989, 55 of 86. In 1990, 68 students were funded from 84 applicants, with SOT providing 70 percent of the funds and industrial sponsorship accounting for the remaining 30 percent of the cost of travel to the meeting in Miami. In 1991, 66 of 99; in 1992, 61 of 111 graduate students received travel funding. The SOT Education Committee welcomes supplemental funds to increase attendance of graduate students at the SOT Annual Meeting. ●

Chapter News

Pacific Northwest Chapter

The 9th Annual Meeting of the Pacific Northwest Chapter was held September 25-26, 1992, in the Battelle Pacific Northwest Laboratory (PNL) Auditorium in Richland, Washington. The theme of the Friday afternoon symposium was "New Developments in Toxic Waste: Molecular and Mechanistic Approaches for Assessment and Clean-up." Presentations were made by **Dr. Stephen H. Safe**, Texas A&M University; **Dr. Ronald Lerch**, Westinghouse Hanford Company; **Dr. Richard Bull**, Washington State University; **Drs. Rick Ornstein** and **John Zimbrick**, Battelle, PNL; and **Dr. Robert Rein**, Roswell Park Cancer Institute.

On Friday evening a catered dinner was attended by 80 individuals from the meeting. On Saturday, 35 papers, both platform and posters, were presented. Best paper awards were presented to **KM Sommer** and **C.G. Omiecinski**, University of Washington, Seattle, Washington, "Mechanisms Controlling Phenobarbital Induction and Tissue Specific Expression of CYP2B1 and 2B2" and to **KA Kovacs** and **L.G. Costa**, University of Washington, Seattle, Washington, "Ethanol Inhibits Muscarinic Receptor Stimulated Phosphoinositide Metabolism and Calcium Mobilization in Rat Primary Cortical Cultures." Each recipient received a \$100 check and a subscription to *Science*.

Southeastern Chapter

The Southeastern Chapter of the Society of Toxicology conducted its annual scientific meeting on Thursday and Friday, October 15-16, at the University of Georgia, Athens. The meeting was jointly held with the Southeast Regional Section of the Society for Experimental Biology and Medicine and had 52 attendees. Thursday's meeting included a symposium entitled "Neurotoxicology: Experimental, Clinical, and Environmental Aspects". The speakers and presentations included: **Mohamed B. Abou-Donia**, Ph.D., Department of Pharmacology, Duke University Medical Center, Durham, NC, "Involvement of Cytoskeletal Proteins in Neurodegenerative Disorders"; **Jay Joshi**, Ph.D., Department of Biochemistry, University of Tennessee, Knoxville, TN, "Toxicity of Essential and Nonessential Metal Ions in Brain Disorders"; **Mary DeLong**, Ph.D., Division of Environmental and Occupational Health, Emory University, Atlanta, GA, "Excitatory Neurotoxicity and the Possible Relationship with Environmental Factors"; and **Jerry J. Buccafusco**, Ph.D., Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA, "The Aged Non-Human Primate as a Model for Alzheimer's Disease." Friday's program included fourteen contributed presentations—five platform and the remainder posters. Eight of the fourteen research studies were the work of graduate students competing for the Chapter's "Best Graduate Student Presentation." The winner of the \$100 prize was **Uma Sanzgiri**, with a study entitled "Roles of Cytochrome P450 IIE1, Lipid Peroxidation and Covalent Binding in Carbon Tetrachloride Acute Hepatotoxicity." Her co-investigators were **J.V. Bruckner** and **J.E. Simmons**. Second place and a \$50 prize was awarded to **Gary W. Miller**, Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia for his study of "A Novel Low-Affinity Strychnine Binding Site in Renal Proximal Tubules." His co-investigator was **R.G. Schnellmann**. At the business meeting on Friday, the winners of the Chapter's election for new officers were announced. **Anthony J. DeLucia**, Ph.D., was elected Vice-President/President-elect and **Robert A. Young**, Ph.D. was elected councilor. They join **Kenneth A. Voss**, Ph.D., President, **Rick G. Schnellmann**, Ph.D., Councilor and **Carl O. Schulz**, Ph.D., Past-President, as other members of the Executive Committee. Dr. DeLucia will continue to serve as the Secretary-Treasurer until spring elections are held. The revitalization of the chapter was noted by its current roster of 49 dues-paying members and plans for a meeting and social gathering in New Orleans at the Annual Meeting of the SOT. ●

Change of Address

The deadline for changes in the membership database for publication in the 1993-94 Membership Directory is **March 31, 1993**. Please submit in writing to the SOT office prior to that date. ●

Publications of Interest

Animals in Research: A Resource Directory of Educational Materials, National Association For Biomedical Research, 818 Connecticut Ave, NW, Suite 303, Washington, DC 20006, 202/857-0540.

Animal Models In Toxicology, Shayne Cox Gad, Christopher P. Chengelis, Marcel Dekker, Inc., 270 Madison Ave., New York, NY 10159.

Basic Guide To Pesticides: Their Characteristics and Hazards, Shirley A. Briggs, Rachel Carson Council, Hemisphere Publishing Corporation, 1900 Frost Road, Suite 101, Bristol, PA 19007-1598.

Ethel Browning's Toxicity and Metabolism of Industrial Solvents, 2nd Edition, R.G. Thurman and F.C. Kauffman, Elsevier Science Publishing Co. Inc., P.O. Box 883, Madison Square Station, New York, NY 10159.

Industrial Hygiene Work Force Characteristics: Employment, Education and Practice, Department of Health & Human Services, Barry S. Stern, Bureau of Health Professions, Public Health Branch, 5600 Fishers Lane, Room 8C-09, Rockville, MD 20857.

Material Safety Data Sheets: The Writer's Desk Reference, Richard P. Molinelli, Ph.D., Michael J. Reale, Ph.D., Ralph I. Freudenthal, Ph.D., Hill and Garnett Publishing, Inc., P.O. Box 810847, Boca Raton, FL 33481-0847, 407/451-4661.

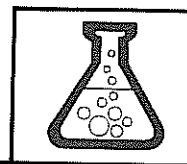
1992 Directory of Toxicology Laboratories Offering Contract Services (1992 DOTLOCKS), Ralph I. Freudenthal, Ph.D., Hill and Garnett Publishing, Inc., P.O. Box 810847, Boca Raton, FL, 33481-0847, 407/451-4661.

PCB Management Handbook, Executive Enterprises Publications Co. Inc., 22 West 21st Street, New York, NY 10010-6904, 212/645-7880.

Scientists Center for Animal Welfare Proceedings: Refinement and Reduction in Animal Testing, Carolyn Harvey Lingeman, Steven M. Niemi and John Willson, SCAW, 4805 St. Elmo Avenue, Bethesda, Maryland 20814, 301/654-6390.

Voltametric Determination of Molecules of Biological Significance, W. Franklin Smyth, John Wiley & Sons, 1 Wiley Drive, Somerset, NJ 08875. ●

Placement Services



ENVIRONMENTAL AND AGRICHEMICAL EDUCATION SPECIALIST

Washington State University, Tri-Cities Campus, Richland, Washington. A 12 month, tenure-track, assistant professor rank, position in the Department of Entomology, College of Agriculture and Home Economics, which will serve as the education specialist on issues of environmental quality and agrichemicals for Washington State University. For further information contact Barbara A. Scott, 509-335-2888. Washington State University is an Equal Opportunity/Affirmative Action Educator and employer.

INDUSTRIAL TOXICOLOGIST

Hercules Incorporated - a Fortune 200, technology-intensive chemical, aerospace, and materials company invites you to be an integral part of our organization at our headquarters in Wilmington, Delaware.

As a Toxicologist, your responsibilities will include industrial toxicology covering placing and monitoring tox studies, as well as evaluating and producing Material Safety Data Sheets. The successful individual will have, preferably, a Ph.D. and at least 5 years toxicology experience in an industrial environment. You also should be board eligible. Certified DABT.

Hercules offers excellent salary, benefits, and a complete relocation package. If interested, please send your resume to: Hercules Incorporated, Attn: F.J. Laquinta, Human Resources Dept., 2nd Floor, Hercules Plaza, Wilmington, DE 19894. An equal opportunity and affirmative action employer.

MAMMALIAN TOXICOLOGIST

PMC Corporation, a fortune 150 International machinery and chemical corporation, has an opening for a Mammalian Toxicologist at our Chemical and Developmental Center located in Princeton, NJ. Responsibilities will include evaluating and interpreting data from mammalian toxicology programs; summarizing toxicology data for regulatory agencies; meeting FDA/EPA/FIFRA & TSCA/EEC and other international regulatory requirements for new and existing products; preparing risk assessments; assisting in the compilation and dissemination of technical information; and acting as study monitor for mammalian toxicology studies for industrial and agricul-

A Reminder:

The Deadlines for Discounted Annual Meeting Pre-Registration are January 26 and February 26, 1993. To register, contact SOT Headquarters at 202/371-1393.

tural chemicals in GLP studies. Position requires MS or PhD in Toxicology or related field with industrial experience preferred; familiarity with international toxicology regulations and GLP's a plus. FMC offers a competitive salary and benefits package. Please send resume with salary requirements to: FMC Corporation, Dept. 92-16, P.O. Box 8, Princeton, NJ 08543. EOE, M/F/D/V.

POSTDOCTORAL FELLOWSHIP

Available to U.S. citizens for the study of mechanisms of phagocytic cell involvement in liver or lung toxicology. Research topics of interest include interactions among cell types as they relate to toxicity and the role of mediators in tissue injury. A Ph.D. degree is required; research training in biochemistry, molecular and/or cell biology are preferred. Applicants should submit their curriculum vitae and names of three references to: Dr. Robert A. Roth, Dept. of Pharmacology and Toxicology, Michigan State University, East Lansing, MI 48824. Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTISTS: TOXICOLOGY AND METABOLISM

Midwest Research Institute (MRI), a leading contract research organization with major research activities in the health sciences, has positions available in the Life Sciences Department.

Senior Product/Drug Development Scientist-Responsible for the conduct of pharmacokinetics and metabolism studies to support product/drug registration.

Senior Toxicologist-Responsible for the conduct of animal toxicity studies. DABT or board eligible.

Successful candidates should possess PhD in pharmacology, toxicology, biochemistry, or other related discipline or DVM with minimum of 4 years' experience in related field. Experience as study director/principal investigator is required and experience with submissions to government regulatory agencies is desired.

Staff Scientist-participate in pharmacokinetics, toxicology or metabolism studies. Requires BS or MS in relevant scientific discipline with minimum of 3 years experience in related field.

MRI offers competitive compensation, a comprehensive benefits package, paid relocation and a unique environment to meet personal challenges and enhance career growth. If you are interested in joining a talented team, please fax or send resume to Jill M. Skaggs, Dept. DWA at: Midwest Research Institute Serving Science and Society, 425 Volker Blvd., Kansas City, KS 64110, Phone: 816-753-7600, Fax: 816-753-8420. EEO/AA, M/F/D/V. A Drug Screening Employer.

POSTDOCTORAL POSITIONS

The Chemical Industry Institute of Toxicology (CIIT) is an independent non-profit research institute. Our mission is to improve the scientific basis for understanding the potential adverse effects of chemicals, pharmaceuticals, and consumer products on human health. We are currently seeking postdoctoral fellows to participate in various aspects of the institute's research program. Research on chemical carcinogenesis is a major component of the CIIT program with investigations on mechanisms of action of DNA reactive mitogenic, cytotoxic and receptor-mediated agents. The institute also has programs in respiratory tract toxicology, neurotoxicology, and developmental toxicology.

The postdoctoral program is open to individuals who have recently completed a D.V.M., M.D., or PhD. in toxicology or a related discipline. Application may be made at any time during the year. Applicants are encouraged to apply at least six months prior to completion of their advanced degree. CIIT is located in Research Triangle Park, NC, which offers access to three majors universities as well as many cultural and recreational activities. We offer a base salary of \$26,000, competitive benefits, and a stimulating work environment. Interested applicants should submit a curriculum vitae the names of three professional references, representative reprints, and a summary of research interests to Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709. CIIT is an Equal Opportunity Employer (M/F/H/V).

RISK ASSESSMENT DEPARTMENT MANAGER

ENSR Consulting and Engineering is a nationwide environmental services company specializing in solving and preventing environmental problems for industry. We have a need for a Risk Assessment Department manager on our Fort Collins office.

The Risk Assessment Department Manager will be manager and administrator of the Risk Assessment Staff, and will also be responsible for business development, proposal preparation, client project work including risk assessments of hazardous waste sites and evaluations of industry air emissions.

The qualified candidate will have a Ph.D and 7-10 years experience in Toxicology, Environmental Science, Biology or another related field, 3 years prior consulting experience and RCRA, CERCLA/SARA experience preferred.

ENSR offers a fully competitive compensation and benefits package including flex spending for medical and independent care, a pension and 401 (k) company matching savings plan, plus dental and vision care. Interested applicants should forward their resumes with compensation requirements to: Human Resources Dept., ENSR Consulting and Engineering, 1716 Health Parkway, Fort Collins, CO 80624, EOE/M/F/D/V. Principals only.

RISK ASSESSMENT SPECIALIST

CH2M Hill, an employee-owned environmental consulting engineering firm with over fifty offices nationwide, currently has openings for experienced risk assessors. Principal duties will be in a technical and project management role with interdisciplinary projects requiring quantitative human health risk assessments. Particular projects are in the public and private sectors, driven by regulatory requirements of CERCLA, RCRA, CAA, CWA, and state environmental programs.

Position requirements include an advanced degree in toxicology, public health, environmental chemistry, environmental sciences, or a related field and at least three years' experience in human health risk assessments. Past experience in project management, regulatory programs, interdisciplinary teams, and public or client contact is desired. Send a resume, in confidence, to: Manager of Recruiting: RA, 193, CH2M Hill, P.O. Box 221111, Denver, CO 80222-9990.

STUDY DIRECTOR: GLP TOXICOLOGY

Abbott Laboratories, a fortune 100 health care leader, is currently seeking a top professional to oversee in-house toxicology and contract laboratory studies. Responsibilities include protocol development, study monitoring, and report preparation. You will also conduct literature evaluations and interact with drug discovery, drug metabolism, and other drug development personnel. We require a PhD in Pharmacology/Toxicology and 1-2+ years of pharmaceutical and/or post-doctoral toxicology experience.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban area approximately 30 miles north of Chicago. For confidential consideration, please send resume with salary history to: Patricia Handy, Corporate Staffing, Job# 37379, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action/Smoke-Free Environment.

TOXICOLOGIST

Serve as Study Director on Good Laboratory Practice evaluations of drugs and chemicals for government and commercial clients, and assist in program management and marketing activities. Opportunity to develop independent research and testing program. PhD in toxicology or related discipline with 1 to 6 years of experience. DABT certified or eligible. Forward curriculum vitae to Tracy Higgins, Human Resources, Southern Research Institute, P.O. Box 55305, Birmingham, AL 35255-5305. All inquiries will be kept confidential.

CONSULTING TOXICOLOGISTS: MAMMALIAN

Exxon Biomedical Sciences, Inc., has immediate openings for qualified Toxicologists in our chemical and petroleum groups. Ideally, the successful candidates will possess a PhD. in Toxicology or an M.S. degree with 3+ years of experience and demonstrated ability to identify, develop, market, and manage the delivery of major human health/product toxicology studies.

The successful candidates will provide extensive consulting assistance to Exxon's worldwide affiliates. The work, as well as the organization, is multidisciplinary, and client interactions are a very important aspect of the work. We are seeking applications-oriented individuals with excellent communications and project management skills.

We offer a competitive salary, attractive benefits, and a chance to join a dynamic organization in a position with opportunities for career growth. Please send resume to Francene T. Cohen, Human Resources. Exxon Biomedical Sciences, Inc., Mettlers Road, CN2350, East Millstone, NJ 08875-2350. Equal Opportunities Employer M/F/H/V.

TOXICOLOGIST: STUDY DIRECTOR

Successful candidate will conduct preclinical toxicology assessments of new therapeutic drugs using a variety of standard and novel procedures. Working in an interdisciplinary environment, the Toxicologist consults with pharmacologists, chemists, clinicians, pathologists and related professional staff to develop and conduct an appropriate safety assessments program for candidate pharmaceuticals. Minimum requirements include a doctoral degree in a biological science, 5+ years direct experience in toxicology, and excellent written and oral communication skills; post-doctoral training and experience in drug safety assessment are desirable. Salary and level dependent on qualifications. Pfizer's modern laboratories are located in a pleasant, non-congested shoreline community. Contact: Dr. William M. Kluwe, Pfizer Central Research, Eastern Point Road, Groton, CT 06340, Phone: (203) 441-5208, Fax: (203) 441-5499.

GENETIC TOXICOLOGIST

Successful candidate will supervise the conduct of genetic toxicology tests, including bacterial (Ames) and mammalian cell (CHO/HGPRT) mutations and clastogenicity evaluations *in vitro* (CHO, HLA) and *in vivo* (micronucleus, chromosomal aberrations), as part of the safety assessment of new therapeutic drugs. Ability to interpret and assess the significance of study results is of the utmost importance. Minimum requirements include a doctoral degree in a biological science and 3+ years experience in genetic toxicology, plus excellent written and oral communications skills. Salary and level dependent on qualifications. Pfizer's modern laboratories are located in a pleasant,

non-congested shoreline community. Contact: Dr. William M. Kluwe, Pfizer Central Research, Eastern Point Road, Groton, CT 06340, Phone: (203) 441-5208, Fax: (203) 441-5499.

ASSISTANT OR ASSOCIATE PROFESSOR OF TOXICOLOGY

The Department of Pharmacology, Toxicology and Therapeutics at the University of Kansas Medical Center invites applications for a tenure-track position for a toxicologist. The applicants must have an appropriate PhD or an MD with two years or more of relevant post-doctoral experience. The successful candidate will be expected to establish an independent research program and contribute to the teaching of graduate and medical students. Primary appointment will be in this Department, but additional affiliation with the Center for Environmental and Occupational Health, Cancer, or Mental Retardation Research Center is possible. Applicants should send a curriculum vitae and the names of three references to: Dr. Curtis D. Klaassen or Dr. Sam J. Enna, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center, Kansas City, KS 66160-7417. The University of Kansas is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW

The Pathology and Experimental Toxicology Department of PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, is seeking a qualified individual for a postdoctoral fellowship in biochemical toxicology. The fellow will investigate mechanisms of nephrotoxicity induced by platinum-based chemotherapeutic agents. Applicants should possess a Ph.D. in toxicology or a related discipline and have experience with tissue culture and *in vitro* methodologies. Additional experience with renal transport studies, atomic absorption spectrometry, autoradiography, use of fluorescent probes and/or confocal microscopy would be desirable. Interested individuals should send their CV and list of references to Box JDM-69, Human Resources Department, PARKE-DAVIS Research Division, Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment" "Equal Opportunity In Action." ●

Upcoming Conferences

International Conference on the Health and Disease Effects of Essential and Toxic Trace Elements, February 8-12, 1993, New Delhi, India. Contact: Mohammad Athar, Convener, International Congress, Fax: 011 6474514.

The Role of Toxicologic Pathology in Safety Assessment, February 9-10, 1993, Washington, DC. Contact: Ms. Sharon Holzmann, National Research Council, 2101 Constitution Avenue, Washington, DC 20418, 202/334-1553.

Responsibilities of Institutions Toward Animals in Research, February 12, 1993, Boston, Massachusetts. Contact: Scientists Center for Animal Welfare, 4805 St. Elmo Avenue, Bethesda, Maryland 20814, 301/654-6390. Fax: 301/907-3993.

The Toxicology Forum, February 15-17, 1993, Washington, DC. Contact: The Toxicology Forum, Suite 800, 1575 Eye St., NW, Washington, DC 20005, 202/659-0030.

Neurotoxicology Conference, March 11, 1993, Seattle, Washington. Contact: Sharon Morris, University of Washington, SC-34, Seattle, WA 98185, 206/543-1069.

Society of Toxicology 1993 Annual Meeting, March 14-18, 1993, New Orleans, Louisiana. Contact: Dawn Caruso, SOT Headquarters, 1101 14th St., NW, Suite 1100, Washington, DC 20005-5601, 202/371-1393.

25th International Symposium: Remote Sensing and Global Environmental Change, April 4-8, 1993, Graz, Austria. Contact: ERIM/International Symposium, P.O. Box 134001, Ann Arbor, MI 48113-4001, 313/994-1200.

The Risk Assessment Paradigm After Ten Years: Policy and Practice Then, Now And In The Future, April 5-8, 1993, Dayton, Ohio. Contact: Ms. Lois Doncaster, Conference Coordinator, ManTech Environmental Technology, Inc., P.O. Box 31009, Dayton, Ohio 45437-0009. 513/256-3600 ext.212.

Early Markers of Carcinogenesis, April 6-7, 1993, University of Kent, Canterbury, England. Contact: Dr. E.S. Harpur, Sterling Winthrop Pharmaceuticals Research Division, Willowburn Avenue, Alnwick, Northumberland NE66 2JH, England, 0665/510111.

Fate, Transport and Interactions of Metals: A Joint United States - Mexico Conference, April 14-16, 1993, Tucson, Arizona. Contact: Susan Hurt, Department of Pharmacology/ Toxicology, College of Pharmacy, University of Arizona, Tucson, AZ 85721.

Mid-America Toxicology Course, April 25-30, 1993, Kansas City, Missouri. Contact: Curtis D. Klaassen, Ph.D., Professor of Pharmacology & Toxicology, University of Kansas Medical Center, Kansas City, KS 66160-7417, 913/588-7714, Fax: 913/588-7501.

The XIIth International Congress of Pharmacology, July 24-30, 1993, Palais des Congres de Montreal, Quebec, Canada. Contact: National Research Council of Canada, Conference Services, Montreal Road, Ottawa, Ontario, Canada K1A 0R6, 613/993-9009.

Practical In Vitro Toxicology: Third International Conference, July 25-29, 1993, East Midlands Conference Centre, Nottingham, UK. Contact: PIVT III Secretariat, Congress House, 65 West Drive, Cheam, Sutton, Surrey SM2 7NB, UK, 081/661-0877.

Second Satellite Symposium, Japanese Society of Toxicological Sciences, July 28, 1993, Chiba Municipal Hall and **The 20th Annual Meeting of the Japanese Society of Toxicological Sciences**, July 29-30, 1993, Chiba Municipal Hall and Royal Plaza Hotel, Chiba, Japan. Contact: Professor Tetsuo Satoh, Faculty of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263, Japan, 043/255-1574. ●

Obituaries

Dr. James H. Sterner

Dr. James H. Sterner, a charter member of SOT, died on August 27, 1992 in Laguna Hills, CA. He is survived by his wife Patricia, children, John, James and Susan, and his grandchildren. Jim Sterner was a pioneer in the fields of toxicology and occupational health when professional recognition of these fields was just beginning. Following graduation from Harvard University Medical School and completion of an internship and chief residency at Lankenau Hospital in Philadelphia, he joined the Medical Department at Eastman Kodak Company where he founded the Laboratory of Industrial Medicine in 1936. This program augmented the medical and safety functions at Kodak by creating specialties in toxicology, industrial hygiene and occupational medicine.

Dr. Sterner's research interests were very broad. In particular, he made significant contributions to our understanding of dermal sensitization, radiation medicine and risk assessment as we know it today. During World War II, he provided industrial hygiene expertise to the Manhattan Project and later to the Atomic Energy Commission as a consultant in occupational safety. In 1968, Dr. Sterner retired from Kodak as its Medical Director and from the University of Rochester as Clinical Professor of Preventative Medicine. In 1979, the University established the James H. Sterner Professorship in Dermatology in recognition of his progressive approach to improving the science and practice of occupational dermatology. Jim Sterner was not the retiring type, and in 1968 he moved to the University of Texas at Houston where he became Professor of Environmental Health and served as Acting Dean and then Associate Dean of the new School of Public Health. During this time he also served briefly as the Acting Director of Public Health for the City of Houston. Following his retirement from the University of Texas, Jim accepted a position as Clinical Professor of Occupational Medicine at the College of Medicine, University of California at Irvine, where he taught until 1985.

Jim Sterner's view of the world and toxicology was an expansive one, and his colleagues remember him as a dynamic, forward-looking, and forward-moving person. In addition to his Kodak and university responsibilities, Jim took time to serve as President of the American Industrial Hygiene Association (AIHA), founded the Western New York Section of AIHA, and played key roles in Founding the American Board of Industrial Hygiene, the Collegium Ramazzini, and the American Board of Preventative Medicine.

His colleagues, and all who knew him and shared in his legacy, have benefitted by his tremendous energy and drive.

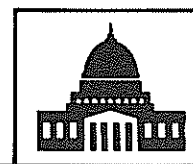
Submitted by John L. O'Donoghue, V.M.D., Ph.D.

Jean-Claude Roger

Jean-Claude Roger passed away on Friday, October 30, following a long illness. Dr. Roger was a member of the Society of Toxicology and had served as a Councilor of the Midwest Regional Chapter of the Society. His undergraduate studies were in France and his graduate work at the University of Wisconsin at Madison and the University of California at Berkeley, where he received his Ph.D. in 1967. He was employed as a biochemist by Ciba Geigy from 1967-1972. From 1972 until the time of his death, Dr. Roger was employed by Amoco Corporation in the Product Stewardship and Toxicology group. His outgoing and good-natured personality will be sincerely missed by his colleagues at Amoco and in the Society.

Submitted by Jeanne K. Yermakoff

Watching Washington



Win Some, Lose Some:

Legal Standing Remains Key Issue in Suits

A lawsuit enacted in Louisiana by a coalition of animal rights groups to prevent scientists at Tulane University from conducting research without euthanizing the surviving Silver Spring monkeys has a new development. The petitioning groups have been told by the court that they lack legal standing to protect the monkeys. The court has also granted Tulane's motion for dismissal on the grounds that the plaintiffs failed to meet constitutional requirements for legal standing to bring the suit. An appeal is possible.

In other news, The Oregon State Court of Appeals has ruled that animals rights activists have legal standing to sue institutional animal care and use committees (IACUCs). The ruling that organizations do not have to be directly affected by government decisions to sue a public body reverses a lower court's ruling that organizations did not have legal standing to challenge IACUC decisions in court.

European Community Ministers Agree On Animal Test Ban Text

As part of the European (EC) Cosmetics Directive, the Council of Ministers has agreed to, as of 1998, ban the use of any ingredient for cosmetic use if it has been tested on animals. The Council agreed to consider extending the deadline by as much as two years, if validated non-animal alternative tests have not been yet been developed.

FDA Publishes Animal Testing Paper

The Food and Drug Administration has published a position paper on the role of animal testing in FDA-regulated products. A copy of the complete paper is available from SOT Headquarters.●