

Society of Toxicology NEWSLETTER

January/February 1992

Society of Toxicology **SEATTLE**

Educational Program and Keynote Speaker to Highlight Minority Sessions in Seattle

The SOT 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, February 23 at the Annual Meeting in Seattle. The afternoon program will include presentations by **Dr. Hari Mehendale** from the University of Mississippi Medical Center; **Dr. Faye Calhoun** from the National Institutes of Health; **Dr. Dan Acosta** from the University of Texas at Austin; **Dr. Diane Garnes**, CIBA-Geigy Corp.; **Dr. Ethel Cormier**, The Procter & Gamble Company and **Dr. Mark Nelson**, University of Arizona. The first part of the program will provide a broad background of information on Toxicology, including opportunities for graduate research and careers in this field. After a refreshment break the afternoon program will feature a Keynote Presentation by **Dr. Cecil B. Pickett**, Executive Director of Research, Merck-Frosst Center for Therapeutic Research, Montreal. The title of Dr. Pickett's talk will be "Regulation of Gene Expression by Xenobiotics."

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 meeting. Among the individuals who will be attending this session are local science students and their advisors, science undergraduates and advisors who have received travel funding from the NIH grant awarded to the SOT Education Committee to encourage recruitment of minorities in the field of toxicology. ●

Prize Drawing at Annual Business Meeting

A prize drawing for two complimentary air tickets will be held during the Annual Business Meeting, Monday, February 24, 4:00-5:00 p.m. ●

Bylaws Changes

During the Annual Business Meeting, SOT President Donald J. Reed will present for members' consideration amendments to the SOT Bylaws. The Society has grown tremendously in the last few years and the process by which candidates are selected for the ballot for the Nominating Committee has become unwieldy, with representatives of 16 chapters and 9 sections on the ballot concurrently.

The proposed Bylaws amendments would permit Council to develop a plan to rotate the representation of the chapters and sections on the ballot. The number of members on the Committee would not change. It is hoped that this change will make the ballot process more meaningful to the membership and administratively less burdensome. These amendments are presented in full below and a ballot will be mailed to the voting membership in March.

Proposed Bylaws Amendments (the section would be revised as presented below):

Article Fourth, Section 2. Nominating Committee. . . . They shall be determined in the following manner: (1) Each of four Regional Chapters will nominate one candidate; from this group one member shall be elected by plurality vote. Council shall determine and may revise from time to time a rotation plan for selecting the four chapters that is based on having chapters of similar size nominate individuals in any given year. (2) Each of three Specialty Sections will nominate one candidate; from this group one member shall be elected by plurality. Council shall determine and may revise from time to time a rotation plan for selecting the three sections that is based on having sections of similar size nominate individuals in any given year. . . . ●

INSIDE THIS ISSUE

- President's Message 2
- Annual Meeting News 3
- Guidelines for Organizing Symposia 4
- Member News 5
- Regional Chapter News 5
- Publications of Interest 6
- Upcoming Conferences 6
- Placement Services 6
- Watching Washington 8



Society of Toxicology

1101 14th Street, NW
Suite 1100
Washington, DC 20005
(202) 371-1393
Fax (202) 371-1090

Deadline for next issues:

April 10, 1992
June 10, 1992
August 10, 1992
October 10, 1992
December 10, 1992

1992 SOT Annual Meeting

February 23-27
Seattle Convention Center
Seattle, Washington

President's Message

Dear Fellow Members,

Nearly three quarters of our year has passed, and we should acknowledge and reflect on the activities of the Society, the dedication and hard work of our officers, Councilors, Committee members and staff, especially Joan Cassidy, Shawn Lopez, Trish Small and Erin McFall. They have made it possible for us to keep pace with the growth and vitality of our Society. As you read this Newsletter, the Annual Meeting will be about to begin with a record number (1641) of abstracts to be presented in the many sessions and special events. We also look forward to the Seattle Meeting as the time to make preliminary plans for our 1993 Annual Meeting in New Orleans and the pleasure of welcoming our almost 400 new members who joined SOT during 1991.

With the growth of both membership and impact of SOT, we need to consider our accomplishments and future goals for the Society. To initiate such an assessment, the SOT Council has undertaken the beginning of long-range planning for SOT. Areas under review are Administration, Committees, Annual Meeting, Finances, Specialty Sections, and Chapters. We hope this initial assessment will help us chart the way for a full-scale as well as long-range plan that could involve every member of our Society.

Past President Klaassen detailed the growth of the Society last year in an excellent series of President's Messages. Every indicator points to continuing growth of the Society and growth in the size of the Annual Meeting as well. The increase in membership will continue to bring changes in almost every aspect of the Society. In our planning, it will be imperative that we make certain that each member has an opportunity to participate in decisions concerning the impact of these changes and how we function as a Society.

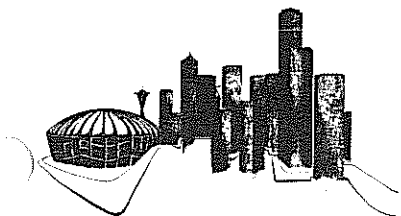
SOT is one of 58 member organizations of the Council of Scientific Society Presidents (CSSP). CSSP meets twice a year and decides on the thrust of their efforts to influence the decisions being made by government and other agencies on national and global issues. The theme of the semiannual meeting in December was "Making Choices in Our National Research Agenda." One of the speakers was Joseph S. Hezir, Deputy Associate Director, Energy and Science Division, Office of Management and Budget (OMB), who spoke of the procedures of creating the President's annual budget. While acknowledging that the government is working closely with leaders of industry, he stated that not a single scientific society representative has visited with him. Surprisingly, Mr. Hezir stated that CSSP should not repeat last year's decision of taking a policy position against the space station proposed by the Bush Administration. Mr. Hezir indicated that such action was very counterproductive for the funding of "science" in the USA. Meanwhile, some Congressional reports indicate that the CSSP action helped save a significant portion of the National Science Foundation (NSF) budget.

For the coming year, CSSP efforts will be focused on the need to place a sustainable biosphere at the highest priority. Advocacy of a reversal of the proposed change in the national policy for wetlands is included in these efforts. As you probably know, the Council on Competitiveness, chaired by Vice President Dan Quayle, has proposed drastic changes in the definition of wetlands. Presumably, a major factor in this proposed change is the desire of the Bush Administration to accommodate a group of oil and gas companies, utilities, and real-estate and farming interests. If the change in definition of a wetland is adopted, it could cause the loss of about 50 percent of the entire wetlands in the United States. It is the opinion of some observers that a major factor is the thinking of the Bush Administration that it is less expensive for American economic interests to allow companies to pollute. Each of you are urged to voice your concern about this proposed environmental disaster, which would have a devastating impact on a sustainable biosphere.

Again, I wish to welcome and congratulate all of the members who joined the Society this year. We look forward to your enthusiastic participation in the many activities of the Society. ●

Sincerely,

Don Reed
President



31st Annual Meeting

February 23-27, 1992

Seattle Convention Center

Seattle, Washington

Delivery of *The Toxicologist*

SOT members in the U.S. and Canada will receive the 1992 edition of *The Toxicologist* (abstracts volume) prior to the meeting in Seattle. All Annual Meeting attendees are reminded to bring their copies of *The Toxicologist* with them to Seattle. Additional copies will cost \$10 on-site.

SOT members outside the U.S. and Canada who attend the Annual Meeting will receive the Program and *The Toxicologist* at the registration desk on-site. SOT members outside the U.S. and Canada who do not attend the Annual Meeting will receive their copies of the Program and *The Toxicologist* after the Meeting. ●

Graduate Student Travel Awards

SOT will fund the travel of 60 graduate students to the 1992 Annual Meeting in Seattle. The number of applicants was high, with 111 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 and awards to students ranking higher by program directors at the universities from which the applicants were received. A maximum of three awards per university and one per major professor were allowed.

Applications for graduate student travel awards in 1991 increased over previous years. In 1986, SOT funds sponsored 56 awards chosen 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 to travel to the meeting in Miami. In 1991, 66 of 99 graduate students received travel funding. The SOT Education Committee welcomes supplemental funds to increase attendance of graduate students at the SOT Annual. ●

New Investigators' Forum for SOT Meeting

As part of a continuing series for new investigators, initiated at the 1990 Forum for New Investigators in Miami, the SOT Education Committee is sponsoring a program on Wednesday, February 26, 2:00 p.m., at the 1992 Annual Meeting in Seattle to specifically discuss different sources of funding. The goal of this forum is to provide new investigators with an overview of funding sources including the U.S. Department of Agriculture, the U.S. Army, the U.S. Air Force and the National Institutes of Health. The program will include representatives from different government agencies who will broadly outline their respective extramural research opportunities and be available to answer specific questions from new investigators. In addition, a "Do's and Don'ts of Grant Writing" with respect to NIH proposals will be presented. This session will be coordinated and introduced by **Dr. Robert Roth**, Michigan State University; some of the participants include

Dr. Rosemary R. Grady, USDA; Mrs. Jean V. Smith, U.S. Army; Dr. William Berry, U.S. Air Force and **Dr. William Atchison**, Michigan State University. The program will end with a panel discussion and general questions from the audience. Everyone is welcome to attend! ●

Wanted: "Host/Mentors" for Minority Student Programs at Annual Meeting

As recipients of an NIH-sponsored grant, the SOT Education Committee will be making a strong effort to introduce toxicology to minority undergraduate science majors and their advisors at the 1992 meeting in Seattle. For this effort, the Education Committee is requesting assistance from SOT members, postdoctoral students and others willing to serve as "host/mentors" for these students between their arrival on Sunday (when they will attend the educational Program for Minority Students) and the student luncheon on Monday. Host/mentors will help students find the rooms in which their special sessions will be held on Sunday and Monday and generally make these students feel welcome at SOT. This program received high marks from the students and their advisors who attended the 1991 SOT Annual Meeting in Dallas.

About 15-30 volunteers with responsibility for one or two students each are needed. Anyone willing to volunteer for this important responsibility should contact Trish Small at SOT Headquarters. ●

SOT Members Eligible for Year-Round Car Rental Discounts

SOT members are now 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. ●

Social Night Tickets Still Available

Tickets for the SOT Social Night at the Seattle Art Museum, Monday, February 24, are still available. The \$38 ticket price includes admission to the museum, transportation from and to the Sheraton and Westin hotels, the food sampling, beer, wine, and soft drinks.

To register, complete the Social Evening Section of your Annual Meeting Registration form. ●

Guidelines for the Organization of a Symposium for Presentation at The Annual Meeting of the Society of Toxicology

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 may 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. ●

1992 Dues are Due!

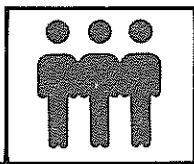
A reminder: Your 1992 dues must be received at Headquarters by March 31, 1992, in order for you to continue to receive your journals. Please note that you may pay via check, money order, MasterCard, Visa, American Express or Diners Club. ●

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 must 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. ●

Member News

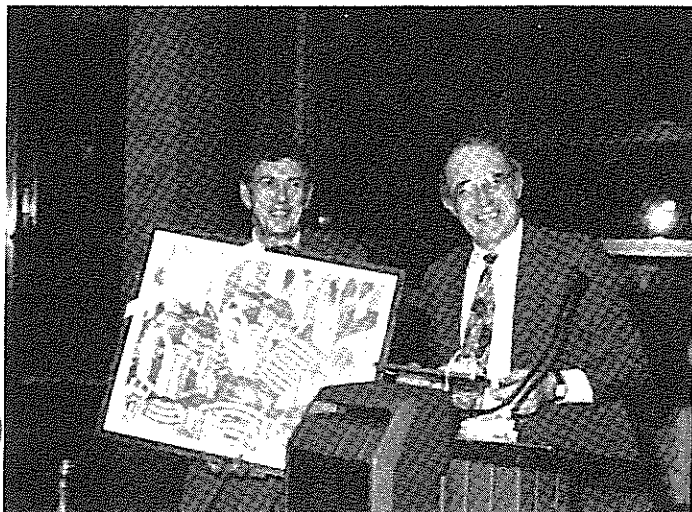


Sam Kacew, Ph.D., Professor of Pharmacology at the University of Ottawa, was appointed Editor-in-chief of the *Journal of Toxicology and Environmental Health*.

The Humane Society of the United States has presented **Alan M. Goldberg, Ph.D.**, director of the Hopkins Center for Alternatives to Animal Testing (CAAT) and associate dean for research at the Johns Hopkins School of Public Health, with the first Russell and Burch Award. The Award recognizes a scientist who has made outstanding contributions to the advancement of alternatives to the use of animals in research, testing or education.

Robert A. Scala, PhD, former president of the Society of Toxicology and Senior Scientific Advisor with Exxon Biomedical Sciences, Inc. was honored by a scientific symposium and dinner given in his name. It was held by the Environmental and Occupational Health Sciences Institute of Rutgers University and UMDNJ Robert Wood Johnson Medical School on December 11, 1991 in Piscataway, NJ. The speakers were chosen to represent the many individuals who had been mentored by Dr. Scala during his long career, or who could present the latest advances in fields such as the predictive toxicology of mixtures which owes so much to Dr. Scala's contributions. The symposium was chaired by **Dr. Michael Gallo** who also spoke about his own work in dioxins. Other speakers and topics were **Drs. Don Reed**, Solvent Toxicology; **Philip Guzelian**, Analysis of Transcriptional Activation by Dexamethasone of the Cytochrome P450 3A1 Gene; **John Doull**, The Future of Exposure Limits; **Jerry Egan**, Scientific contributions at Exxon and Beyond; and **Joellen Lewtas**, New Approaches to the Risk Assessment of Complex Mixtures.

At a dinner following the symposium over a dozen speakers provided personal reminiscence concerning the central role that Bob Scala has had in the development of modern toxicology. The most commonly repeated phrase was "fierce integrity." In a moving talk following presentation of gifts, Bob Scala spoke of his experience in toxicology under the theme of "give the kid a chance." He reflected on how often he had been given a chance and urged all in the field to do the same for the up and coming toxicologists of the future. ●



Bernard Goldstein presents gifts to Bob Scala on his retirement.

Call for Research Proposals: Center for Alternatives to Animal Testing Seeks Grant (CAAT) Applicants for 1993

The Johns Hopkins Center for Alternatives to Animal Testing (CAAT) is soliciting proposals for the 1993-94 grant period. Projects should be 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.

CAAT encourages the investigation of in vitro approaches to evaluating cellular and target organ toxicity. Some examples are: developing new cell culture 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.

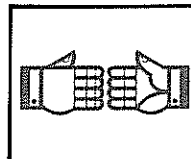
To apply, submit a one page preproposal abstract (no specific format required) to Ms. Joan Poling, CAAT, 615 N. Wolfe St., Baltimore, MD 21205; tel. (410) 955-3193, fax (410) 955-0258. If the preproposal is accepted, investigators will be invited to submit a full proposal and will receive application preparation guidelines.

Deadline for submission of abstracts is March 13, 1992. ●

Change of Address

The deadline for changes in the membership database for publication in the 1992-93 Membership Directory is March 31, 1992. Please submit any changes necessary in writing to the SOT office prior to that date. ●

Regional Chapter News



Mid-Atlantic Chapter

The Mid-Atlantic Society of Toxicology will sponsor a one-day symposium on Risk Assessment and Risk Communication at the Ramada Inn, Princeton, New Jersey, Tuesday, April 28, 1992. There will be a morning poster session featuring recent research findings in various areas of toxicological research given by students and non-students. Awards will be given to the best student poster presentations. A new award will also be given this year to the best poster presented by someone who is not a student. The Mid-Atlantic Society will also present its ambassador award to this year's recipient. The afternoon presentations will include topics related to risk assessment and risk communication.

For further details, contact: Theresa Kirley, Ph.D., Hoffmann-La Roche, Inc., Department of Toxicology and Pathology, 340 Kingsland Street, Building 100/2, Nutley, NJ 07110.

continued on next page

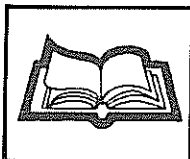
Gulf Coast Chapter

The 1991 Fall Meeting of the Gulf Coast Chapter of SOT, held October 10-12, in Smithville, TX drew 100 registrants. The one and one-half day meeting featured symposia on Free Radicals and Oxidative Stress and Comparative Toxicology. Fourteen graduate students were selected to give platform presentations and there were 23 student poster presentations. Two awards were given for each type of presentation. Martha Belury from the M.D. Anderson Cancer Center in Smithville, TX received the Ted Reynolds Graduate Student Award for her platform presentation. Thomas Paraidathathu of the University of Texas at Austin received a travel award, for his platform presentation, to attend the upcoming SOT Annual Meeting in Seattle. Mark Merchant of Texas A&M University and Roberta Grant of the University of Texas at Austin received first and second place awards, respectively, for best posters. In addition, Nyla Harper of Texas A&M University received a local travel award to attend the Gulf Coast SOT Meeting. Dr. John W. Eaton from the University of Minnesota Medical School was the keynote speaker at the evening banquet.

Pacific Northwest Chapter

The Pacific Northwest Chapter (PANWAT) cordially invites current and returning chapter members and their guests to a special reception to be held in the SOT President's suite at the Seattle Sheraton Hotel on Tuesday, February 25, from 6:00 to 7:30 p.m. Please consult the message board at the Sheraton Hotel for suite location. ●

Publications of Interest



Analytical Methods in Toxicology, H.M. Stahr, John Wiley & Sons, Inc., Professional, Reference and Trade Group, 605 Third Avenue, New York, NY 10158-0012.

Animals as Sentinels of Environmental Health Hazards, National Research Council, National Academy Press, 2101 Constitution Avenue, NW, Washington, DC 20418; (202) 334-3313.

Animals in Biomedical Research: Replacement, Reduction and Refinement, C.F. M. Hendriksen and H.B.W.M. Koeter, (eds.), Elsevier Science Publishers, P.O. Box 882, Madison Square Station, New York, NY 10159.

Behavioral Measures of Neurotoxicity, National Research Council, National Academy Press, 2101 Constitution Avenue, NW, Washington, DC 20418; (202) 334-3313.

Cells of the Hepatic Sinusoid, E. Wisse, D.L. Knook, R.S. McCuskey, (eds.), The Kupffer Cell Foundation, P.O. Box 439, 2300 AK Leiden, The Netherlands.

1992 Directory of Toxicology Laboratories Offering Contract Services, R.I. Freudenthal, Ph.D., (ed.), \$99.95, Hill and Garnett Publishing, Inc., P.O. Box 810847, Boca Raton, FL 33481-0847.

Improving Risk Communication, National Research Council, National Academy Press, 2101 Constitution Avenue, NW, Washington, DC 20418; (202) 334-3313.

State Laws Concerning the Use of Animals in Research, National Association for Biomedical Research, 818 Connecticut Ave., NW, Suite 303, Washington, DC 20006; (202) 857-0540. ●

Upcoming Conferences



SOT Annual 1992 Meeting, February 23-27, 1992, Seattle Convention Center, Seattle, WA. Contact: SOT Headquarters, (202) 371-1393.

International Conference on Pollution Prevention in the Manufacture of Pulp and Paper—Opportunities and Barriers, March 11-13, 1992, Ramada Renaissance Hotel, Washington, DC. Contact: (202) 726-4853 or (202) 429-0776.

New Directions in Risk Assessment, April 13-14, 1992, Hyatt Regency - Crystal City, Arlington, VA. Contact: Dr. Curtis C. Travis, Course Director, (615) 576-2107 or Mary Oran, Course Coordinator, (615) 376-9626.

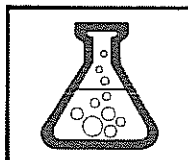
In Vitro Toxicology: The 10th Anniversary Symposium of CAAT, April 14-16, 1992, Johns Hopkins School of Public Health, Baltimore, MD. Contact: Mrs Jeanene Tylee (410) 955-3343 or fax (410) 955-0258.

Mid-America Toxicology Course, April 26-May 1, 1992, Kansas City, MO. Contact: Curtis D. Klaassen, Ph.D., Professor of Pharmacology & Toxicology, University of Kansas Medical Center, Kansas City, KS 66103; (913) 588-7714.

ICT VI, June 28-July 3, 1992, Hotel Cavalieri Hilton, Rome, Italy. Contact: Secretariat, ICT VI, Studio EGA, Viale Tiziano, 19, 00196, Rome, Italy; (06) 3221806, fax (06) 3222006.

Science Innovation '92, New Techniques and Instruments in Biomedical Research, July 21-25, 1992, Moscone Convention Center, San Francisco, CA. Contact: AAAS Meetings Office, 1333 H Street, NW, Washington, DC 20005; (202) 326-6462, fax (202) 289-4021. ●

Placement Services



Staff Scientist

Entry level position in growing environmental consulting firm. Graduate degree in toxicology or related environmental field. Data analysis, basic computer experience essential. Duties include technical writing, literature review and evaluation. Good writing skills essential. Send cover letter and resume to Mrs. Brown, Karch and Associates, Inc., 1701 K Street, NW., Suite 1000, Washington, DC 20006. Non-smoking office. ●

Study Director

Seeking a study director responsible for protocol development, study conduct and reporting of toxicology studies on new pharmaceutical agents. The qualified individual will have a Ph.D in Pharmacology/Toxicology and 3-5 years experience in GLP toxicology studies in the pharmaceutical industry or at contract laboratories. Respond to: Jeffrey Schumkler, American Cyanamid, Lederle Laboratories, Medical Research Division, Middletown Road, Pearl River, NY 10965. ●

Environmental Scientist

Rapidly-growing environmental consulting firm specializing in toxicology, epidemiology, and risk assessment seeks an experienced Environmental Scientist for the position of Senior Staff Scientist.

Candidates must possess a M.S. or Ph.D. degree in toxicology, epidemiology or a related environmental field. Five years experience in management and consulting with extensive experience in environmental sciences including hazard and risk assessment required. Excellent oral and written communications and personal skills essential. Position responsibilities include scientific evaluation, management duties, client relations and business development. Excellent benefits. Non-smoking office. Respond to: Mrs. Brown, Karch & Associates, Inc., 1701 K Street, NW, Suite 1000, Washington, DC 20006. ●

Manager, Toxicology Evaluation

Seeking a manager of a group of study directors who are responsible for protocol development, study conduct and reporting of toxicology studies on new pharmaceutical agents. The person will have responsibility for all managerial aspects including scientific review and oversight, scheduling and resource allocation. The qualified individual will have a Ph.D. in Pharmacology/Toxicology, board certification and more than 5 years experience as a study director with appropriate managerial experience. Respond to: Jeffrey Schmukler, American Cyanamid, Lederle Laboratories, Medical Research Division, Middletown Road, Pearl River, NY 10965. ●

Neurobehavioral Teratologist

The Drug Safety Department of Pfizer Central Research Laboratories is seeking a Research Scientist with a Doctorate or equivalent degree in Pharmacology, Toxicology, Reproductive Biology or related field to conduct developmental neurotoxicity studies within its Teratology/Reproductive Toxicology Unit.

Experience in analyzing effects of drugs chemicals on neurobehavioral development and reproductive performance is required. Excellent oral and written communications skills are essential.

We offer an excellent salary, benefits and relocation package, plus an attractive Connecticut shore location. Please send a copy of CV to Dr. Herbert V. Levinsky, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. ●

Research Toxicologist

The National Institute for Occupational Safety and Health (NIOSH) has an opening for a research scientist in the area of biological monitoring. The candidate must have training in Toxicology, Pharmacology, and/or Biochemistry, and a doctoral-level degree is preferred. Duties include development of in vivo/in vitro models to study occupational carcinogenesis with particular emphasis on biomarkers of exposure, mechanisms of action, and pharmacokinetics. Salary range: \$31,116 to \$48,481. Please send curriculum vitae to: Gayle DeBord, NIOSH, 4674 Columbia Parkway, Cincinnati, OH 45226. NIOSH is an Equal Opportunity Employer, and offers a "Smoke Free Environment." ●

Endowed Centennial Chair in Toxicology

The University of Oklahoma Health Sciences Campus

The University of Oklahoma College of Pharmacy invites applications and nominations for the Dr. Henry D. and Ida Mosier Endowed Centennial Chair in Toxicology. This million dollar Chair was established to attract a nationally recognized scientist in the area of toxicology to enhance interdisciplinary research and education in toxicology as well as to develop an interdisciplinary Center for Toxicological Research on the Health Sciences Center Campus. The College of Pharmacy is located on the University of Oklahoma Health Sciences Center Campus. The Health Sciences Center includes the Colleges of Medicine, Dentistry, Public Health, Allied Health, Nursing and the Graduate College-Health Sciences, in addition to Pharmacy.

Applicants should possess an earned doctorate with peer recognition as an accomplished scientist and educator in the area of Toxicology. This successful candidate will be expected to provide leadership to other faculty and students and support research and graduate education programs within the College of Pharmacy. Faculty appointment will be at the full professor level and opportunities exist for joint appointments in other Colleges. Send Curriculum Vitae, a description of research and teaching accomplishments, and the names of three references to: J. Thomas Pento, Ph.D., Chairman, Endowed Chair Search Committee, O.U. College of Pharmacy, P.O. Box 26901, Oklahoma City, OK 73190. The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged. ●

Supervisor

Drug Safety Assessment Vivarium

Glaxo, Inc. represents a continued commitment to the discovery and development of drugs for unmet patient needs. We invite you to experience the challenges and accomplishments a future with us holds for you. The followings opportunity is now available within our Comparative Medicine Department.

This key individual will be responsible for supervising the animal care team to ensure the proper receipt, housing and care of all animals within the Safety Assessment area. Duties will include ensuring that all procedures and practices are GLP compliant; overseeing and verifying all GLP data; and ensuring the appropriate interfacing of all systems and procedures between Comparative Medicine and Drug Safety Assessment.

Background must include a B.S. degree in a scientific discipline with 3-5 years relevant experience. Candidate must be certified AAALAS Laboratory Animal Technologist or equivalent and possess diagnostic tests. We seek a team-oriented candidate with strong motivational, interpersonal, organization and communication skills and strong management experience. In-depth knowledge of USDA, AAALAC and GLP standards and procedures is required, as is previous pharmaceutical or other GLP regulated industry experience.

Send your resume, including salary history, to: Human Resources Department, Job #9150B207, Glaxo, Inc., P. O. Box 13398, Research Triangle Park, NC 27709. An equal Opportunity Employer M/F/H/V. ●

Toxicologist

Syntex has earned its reputation in the pharmaceutical industry for superior and innovative research. Our strong commitment to R&D has opened new doors in patient care around the world. We have an outstanding opportunity for a Toxicologist to join us in our Palo Alto research headquarters.

You will be responsible for designing, monitoring, and reporting in-house preclinical toxicology studies in a variety of therapeutic areas. Information will be used to support national and international regulatory filings for new drug registration.

To qualify, you'll need a Ph.D. in Toxicology or a related discipline with 2+ years' postdoctoral experience. You'll also need familiarity with regulatory requirements and the ability to work in a team oriented environment. Excellent communication and interpersonal skills essential. Pharmaceutical or Biotechnical background preferred.

Syntex, located on the San Francisco peninsula, offers a competitive compensation and relocation package which includes an incentive bonus plan. For immediate consideration, please send your resume to: Syntex, Professional Staffing, Dept. KH/TM, 3401 Hillview Avenue, Palo Alto, CA 94303. We are an equal opportunity employer. ●

Toxicologists/Health Scientists - Risk Assessment

Our attitude and philosophy are those of a winner. McLaren/Hart didn't become a leading national environmental consulting firm by settling for second place. CHEMRISK, a division of McLaren/Hart, specializes in conducting human and wildlife risk assessments, environmental fate and transport modeling, exposure assessments, toxic tort litigation support, environmental and occupational toxicology, and air quality assessments. ChemRisk has demonstrated expertise in development and directing technically complex environmental investigations.

If you're an imaginative thinker with creativity and drive to be number one, CHEMRISK is currently seeking toxicologists and other health scientists to join our highly trained team. Opportunities are available in Irvine and Alameda, CA; Cleveland, OH; Lester, PA; Warren, NJ; and Portland, ME.

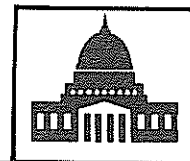
Candidates will have a B.S., M.S., or Ph.D. in toxicology, industrial hygiene or related health science, and zero to ten (0-10) years of experience in health risk assessment. Experience in environmental consulting is preferred. Candidates must possess excellent technical and writing skills. Senior level candidate must possess proven communication/presentation abilities and management experience.

If you share McLaren/Hart's commitment to solving the environmental problems of today and tomorrow, we invite you to find out more. McLaren/Hart offers an excellent compensation and benefits package. For immediate consideration, please visit us at the Annual SOT Meeting Placement Service in Seattle, Washington, or send resume and salary history to: McLaren/Hart Dept. SOTN, 1135 Atlantic Avenue, Alameda, CA 94501. Affirmative Action/Equal Opportunity Employer. ●

Faculty Position, Molecular Toxicology/Pharmacology

The Department of Pharmacology/Toxicology at Purdue University invites applications for a tenure-track faculty position at the Assistant Professor level. We are seeking applicants with training and expertise in cell and molecular biology to develop a research program focused on the mechanisms of action of Xenobiotics on the regulation of growth and/or gene expression, signal transduction, and transgenic cell and animal models. This program would complement current research activities in molecular neurotoxicology, biochemical toxicology, receptor biology and eukaryotic gene regulation. The department is expanding its molecular biology facility and has established a mammalian cell culture laboratory. Candidates should have a Ph.D. or M.D. degree, or equivalent, and at least two years of postdoctoral experience. The successful candidate will be expected to develop an independent externally-funded research program and will have teaching and training responsibilities in our graduate and professional programs. Applicants should submit a curriculum vitae, a description of research goals (not to exceed two pages) and the names of three references to Dr. William F. Greenlee, Head, Department of Pharmacology and Toxicology, School of Pharmacy and Pharmacal Sciences, Purdue University, 1334-Robert E. Heine Pharmacy Building, West Lafayette, IN 47907-1334. Review of Applications commenced on November 1 and will continue until the position is filled. Purdue University is an Equal Opportunity/Affirmative Action Employer. ●

Watching Washington



International Guidelines for Reducing Animals Used in Toxicity Tests

United States, European Community and Japanese officials have agreed on new guidelines to promote international marketing of pharmaceuticals. The guidelines address quality assurance, tests on laboratory animals and efficacy testing. The agreement calls for an end to the "classical LD50" test as a measure of acute toxicity, reduced duration of certain toxicity studies requiring rodents and dogs, as well as acceptance of U.S., EC or Japanese birth defect study protocols rather than requiring their duplication. The agreement is intended to benefit patients worldwide by harmonizing testing and approval processes for new drugs and reducing development costs. ●