

Society of Toxicology NEWSLETTER

JULY/AUGUST 1989

SOT Awards and Nominations

Officers and Elected Committees

The Nominating Committee asks your help in the preparation of the slate of nominees for the 1990 SOT elected officers and members of elected standing committees. The offices to be filled in 1990 include the Vice President-Elect, Treasurer-Elect, and two Councilors. Additionally, two members will be elected to the Membership Committee and Education Committee and four members to the Nominating Committee. The terms and duties of each position are described in the By-Laws. There are many SOT members with the ability and enthusiasm to willingly serve the Society in these important positions. Please send your recommendations to any member of the Nominating Committee: Chairperson **Jerry B. Hook**, **John M. Essigman**, **Hazel B. Matthews**, **Tom S. Miya**, **Donald J. Reed**, or **Hugh A. Tilson**. Act now! Your suggestions must be received by Oct. 1, 1989.

1990 Society of Toxicology Awards

The progress of toxicology has resulted in many worthy potential candidates for the various Society of Toxicology awards. A complete description of each award is given in the Annual Directory of Members, as well as being reproduced on the Awards Nomination Form included with this newsletter. The form is a convenient way for the membership to nominate candidates, but direct letters of nomination with supporting material, as well as other appropriate nomination formats, may also be used.

Each nomination must be submitted by a sponsor and seconders who are members of the Society of Toxicology. The quality of supporting documentation is critical in the review of the nomination of each candidate. Please send all nominations and supporting documentation to the chairperson of the Awards Committee, **Dr. James E. Gibson**, SOT, 1133 15th St., NW, Suite 1000, Washington, DC 20005. The deadline for receipt of nominations for the 1989 Awards is Oct. 1, 1989.

Honorary Membership

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

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

Please send nominations and accompanying documents to the Executive Secretary, SOT, 1133 Fifteenth Street, NW, Suite 1000, Washington, DC 20005.

1990 Burroughs Wellcome Award

The Burroughs Wellcome Fund offers a five-year Toxicology Scholar Award of \$300,000, administered by the Society of Toxicology and awarded to an individual in a U.S. school. A commitment to Toxicology as a basic science by the individual and the institution is a major criterion. Selection is made by the guidance of a five-member committee and based on demonstrated ability and potential of the candidate and strength of commitment of the institution to program quality and the relative importance of the Award to the success of the program.

Applications are to be received by December 1, 1989 by the Chairman, Advisory Committee for the Burroughs Wellcome Toxicology Scholar Award, **Dr. Tom S. Miya**, School of Pharmacy, Beard Hall, Campus Box 7360, University of North Carolina, Chapel Hill, North Carolina 27599 (Telephone: 919/966-1121).

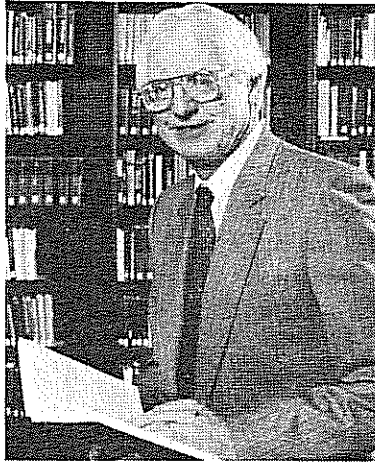
SOT Student Travel Awards

The Society of Toxicology's Education Committee administers the Student Travel Award Funds, which are available to help defray travel expenses for students attending the 1990 SOT Annual Meeting.

To be eligible for funds, the following criteria must be met:

- The graduate student must be an SOT student member (or applicant for student membership.)

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Society of Toxicology
1133 15th Street, NW
Suite 1000
Washington, DC 20005
(202) 293-5935
FAX (202) 775-9631

1990 SOT Annual Meeting
February 12-16, 1990
Fontainebleau Hilton Hotel
Miami Beach, FL

**Deadline for next
issues: November 8, 1989**
January 8, 1990
March 8, 1990
May 8, 1990

President's Message

Dear Fellow Members:

As I noted in my Inaugural President's Message, the Society of Toxicology is a vigorous and dynamic organization. In this message, I would like to highlight four activities that are indicative of the dynamic nature of the Society; one focuses on education, a second on service to members, a third on the quality of our Annual Meeting, and a fourth on recognition of toxicologists.

Education of toxicologists is of interest to all of us and was given great emphasis in the TOX-90's Commission Report. The "TOX-90's Education Issue Task Force" under the leadership of **A. Jay Gandolfi**, assisted by **Robert Dudley**, **David Eaton**, **Michele Medinsky** and **Harihari Mehendale** with **Curtis Klaassen** serving, as Council Liaison, continues to make progress in implementing the Commission's educational recommendations. One of the Task Force's activities has been the development of "A Resource Guide to Careers in Toxicology." The guide to be available this fall will be extremely useful in acquainting students with the opportunities for graduate training in toxicology. It is a pleasure to announce that the Burroughs Wellcome Fund has awarded a grant of \$21,000 to the Society to facilitate publication and distribution of the Directory. I extend a note of thanks, personally and on behalf of all toxicologists, to the Fund for its continued support of toxicology. The grant is a fine testimonial to the hard work of the Task Force and all of those who contributed information on training programs in toxicology. Congratulations to all who helped out.

The Society of Toxicology exists to serve its members. A traditional vehicle of service used by many individuals has been the Placement Service operated by the Placement Committee. In the past, much of the placement activity has taken place at the Annual Meeting. As you may have noted, a new type of placement activity was initiated with the last newsletter. In this issue, you will see a number of additional advertisements. I am optimistic that this new service can be of major assistance to both prospective employees and to employers. The Placement Committee, **Elizabeth J. Hixson**, Director, **Rudolph B. Von Burg**, Co-Director, **Larry L. Hall**, **Judith A. MacGregor**, and **Gisela Witz**, deserve our thanks for their efforts. It should also be noted that the Placement Service could not operate as it does at the Annual Meeting if it were not for the help of many volunteers.

The third topic I would like to touch on is our Annual Meeting. **Curtis Klaassen**, Vice President, and his committee are hard at work developing an outstanding program for the meeting to be held February 12-16, 1990, at the Fontainebleau Hilton Hotel in Miami Beach, FL. All of us can be proud of the steady increase in the scientific quality of our Annual Meeting but we must not become self-satisfied. Now is the time when you can do your part to help assure that the scientific quality of our 1990 meeting is better than ever. One way is to take special care in preparing your abstract for submission before the October 6, 1989 deadline. Carefully read and follow the instructions the Program Committee has provided. And most of all, you can develop an abstract covering *your best research findings* to share with your colleagues. The second way you can contribute is by proposing abstracts for presentation in Poster/Discussion Sessions. These sessions have become extremely popular as a means of bringing together toxicologists for lively discussion and interaction on specific topics. The Program Committee has proposed a range of possible topics for these sessions ranging from "Specificity of Covalent Binding" to "Use of Human Tissue in Toxicology." In addition, they have indicated a willingness to consider other topics.

And in closing my message, I call your attention to the need for your input in recognizing fellow toxicologists for past service and in identifying future contributions to toxicology. You can aid in recognizing individuals for past service by offering nominations for the several distinguished awards sponsored by the Society. You can help encourage future toxicologists by encouraging students to apply for travel awards and fellowship awards. Do your part by encouraging qualified and highly motivated students to apply and by offering well-written letters of recommendation.

The Society of Toxicology exists because of you and for you. I encourage you to be an active participant in all of the Society's affairs.

Best wishes

Roger O. McClellan, D.V.M.
President

Student Travel Awards

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- The graduate student must be presenting a paper or poster at the Annual Meeting.
- A fully completed application must be submitted with a copy of the abstract being presented to SOT headquarters prior to Oct. 6, 1989.

Applications have been mailed to all SOT student members. If you have not received your application, please call SOT headquarters, (202) 293-5935.

Graduate Fellowship Awards

The Society of Toxicology, through the Education Committee, announces the availability of Graduate Fellowship Awards in Toxicology of \$9500 each. The Awards are sponsored by Ciba-Geigy Corporation, Hoffmann-La Roche and Proctor & Gamble. The Fellowship Awards are for one year and are to be administered by the Department of the Awardees.

Any graduate student with at least two years of graduate study toward the Ph.D. degree in the area of toxicology and whose major professor is a member of the Society of Toxicology may apply. Further details are available from SOT headquarters. Evaluation by the Education Committee is based primarily on:

- Originality of the dissertation research
- Research productivity
- Relevance to toxicology
- Scholastic achievement
- Letters of recommendation

Applications are due by October 6, 1989. Finalists will be invited to attend the Society of Toxicology Annual Meeting in Miami, Florida, February 12-16, 1990 for an interview. The winners of these awards will be announced at the annual banquet.

Applications are available from: Education Committee, Society of Toxicology, 1133 Fifteenth St., NW, Suite 1000, Washington, DC 20005.

Air Force Grants

The Society of Toxicology is pleased to announce the availability of the Air Force Office of Scientific Research Toxicology Grants. They include: One Post-Doctoral Research Award consisting of a two-year grant of \$40,375 per year (a new grant annually) and a New Investigator Research Award, a one-year grant (non-renewable) for \$61,750.

Interested parties should submit written requests for details and application to: Joan Walsh Cassidy, Air Force Grants Review Committee, c/o Society of Toxicology, 1133 Fifteenth Street, NW, Suite 1000, Washington, DC 20005.

Closing date for grant submissions is January 15, 1990. Grant work begins in the 1990 Summer.

Metals Specialty Section

In recognition and support of excellence in graduate student research, the Metals Specialty Section invites graduate students to apply for two awards to be presented at the upcoming Society of Toxicology Annual Meeting in February of 1990. Each award will be based on work submitted in the form of an abstract to be presented at the annual meeting and will include a cash stipend of \$500. Abstracts will be evaluated with the authors'/sponsor's names removed and will be judged on the basis of quality of study design and interest/importance of results, with additional consideration of quality/clarity of written presentation and relevance of the study to human exposures.

Each student applicant must be first author of the abstract, which must describe research performed while a student. Qualified applicants should send their name, address, abstract, and a letter of support from a full member of the Society of Toxicology to the address listed below. The letter of support should state that the work was done while a student and that this is the only specialty section award sought with this work. Abstracts may be submitted any time after October 6, 1989, with a deadline for submission of January 1, 1990. An awards committee will then select the winners, and awards will be presented at the 1990 Specialty Section Meeting in Miami Beach.

Send abstracts to: Dr. Carol Walsh, Secretary/Treasurer, Metals Specialty Section, Boston University School of Medicine, 80 E. Concord St., L-603, Boston, MA 02118.

Member News

Jeffrey Huth, Ph.D., has joined Hill Top Biolabs, Inc. as Director and General Manager of the Analytical Services Division. Dr. Huth will be responsible for all division activities, including the development of bioanalytical capabilities in support of Hill Top Pharmatest, Inc. and Hill Top Research, Inc. and their pharmaceutical clients.

Alberto Davidovich, D.V.M., Ph.D., received the Veterinarian of the Year Award from the Northern New Jersey Veterinary Medical Association (NJVMA) for his leadership and commitment.

Dr. Edward D. Helton recently became director, Research and Regulatory Affairs, at Sigma-Tau Pharmaceuticals.

Dr. Albert P. Li has been promoted to the position of Fellow, Toxicology, in Monsanto Company. Dr. Li is a toxicologist in the Environmental Health Laboratory of the Monsanto Company. Dr. Li also serves as Group Leader for the Cellular and Genetic Toxicology group. His activities include standard testing in the area of genetic toxicology, research towards the species extrapolation of chemical toxicity, and strategy development for the evaluation of biotechnology products.

Publications of Interest

Autoimmunity and Toxicology—Immune Disregulation Induced by Drugs and Chemicals, ed., M.E. Kammuller, N. Bloksma and W. Seinen, Elsevier Science Publishers, Biomedical Division, P.O. Box 1527, 1000 BM Amsterdam, The Netherlands.

Biological Markers in Reproductive Toxicology and Biologic Markers in Pulmonary Toxicology, National Academy Press.

Biosafety in Microbiological and Biomedical Laboratories, \$3.75, U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402-9325; (202) 783-3238.

Chemical Status Report, National Toxicology Program, Attn: Sharon Soward, Mail Drop AO-02, NIEHS, P.O. Box 12233, Research Triangle Park, NC 27709; (919) 541-3418.

Chirality: The Pharmacological Biological and Chemical Consequences of Molecular Asymmetry, \$120.00 (4 issues), Alan R. Liss, Inc., 41 East 11th Street, New York, NY 10003; (212) 475-7700.

The Consolidated Chemical Regulation Guidebook Federal/State/International Requirements, Andrew B. Waldo, \$495.00, Executive Enterprises Publications, Executive Enterprises Building, 22 West 21st Street, New York, NY 10010-6904; (212) 645-7880, fax (201) 675-4883.

Elementary and Secondary Education for Science and Engineering, \$7.00, U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402-9325; (202) 783-3238.

Enzymology and Molecular Biology of Carbonyl Metabolism 2: Aldehyde Dehydrogenase, Alcohol Dehydrogenase, and Aldo-Keto Reductase, H. Weiner, T. G. Flynn (eds), \$88.00, Alan R. Liss, Inc., 41 East 11th Street, New York, NY 10003; (202) 475-7700.

Issues in Medical Waste Management, \$2.25, U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402-9325; (202) 783-3238.

Mechanisms of Cocaine Abuse and Toxicity, \$11.00, U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402-9325; (202) 783-3238.

Metal Ion Homeostasis Molecular Biology and Chemistry, D. H. Hamer, D. R. Winge (eds), Alan R. Liss, Inc., 41 East 11th Street, New York, NY 10003.

Principles of Hazardous Materials Management, R. D. Griffin, \$45.00, Lewis Publishers, Inc., 1221 South Main Street, P.O. Drawer 519, Chelsea, MI 48118; 1-800-525-7894.

Radioactivity and Health, A History, J. Newell Stannard, Hardcover \$67.50, Life Sciences Center, K4-14, Battelle, Pacific Northwest Laboratories, P.O. Box 999, Richland, WA 99352.

Science and Animals: Addressing Contemporary Issues, H. N. Guttman, J. A. Mench, D. Phil, R. C. Simmons (eds), \$25.00, Scientists Center for Animal Welfare; 4805 St. Elmo, Bethesda, MD 20814; (301) 654-6390.

The Surgeon General's Report on Nutrition and Health, \$22.00, U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402-9325; (202) 783-3238.

Synthetic Peptides: Approaches to Biological Problems, J. P. Tam, E. T. Kaiser (eds), \$72.00, Alan R. Liss, Inc., 41 East 11th Street, New York, NY 10003.

Transplacental Effects on Fetal Health, D. G. Scarpelli, G. Migaki (eds), \$70.00, Alan R. Liss, Inc., 41 East 11th Street, New York, NY 10003.

Toxic Substances Controls Guide, M. D. Worobec, G. Ordway, \$35.00, BNA Books Distribution Center, 300 Raritan Center Parkway, P.O. 7816, Edison, NJ 08818-7816; (201) 225-1900, fax (201) 225-0812.

Women and Alcohol Problems: Tools for Prevention, \$1.75, U.S. Government Printing Office, Superintendent of Documents, Washington, DC 20402-9325; (202) 783-3238.

1989 Year Book of Toxicology, \$55.00, \$65.00 (outside U.S.), CRC Press, Inc., 2000 Corporate Blvd., NW, Boca Raton, FL 33431.

Coming Events

Seventh International Neurotoxicological Conference: Neurotoxicology and Risk Assessment, September 18–21, 1989, Little Rock, AR. For additional information, please contact: Dr. Joan M. Cranmer, Dept. of Pediatrics #512, University of Arkansas for Medical Sciences, Little Rock, AR 72205, (501) 370-2986 or 370-2982.

Current Developments in In Vitro Teratology Workshop and Conference, September 21–22, 1989, National Institute of Environmental Health Sciences, Research Triangle Park, NC. For further information please contact: Patricia McAdams, Conference Coordinator, 2801 Blue Ridge Road, Suite 105, Raleigh, NC 27607; 1-800-648-8944.

103rd Association of Official Analytical Chemists Annual Meeting, September 25–28, 1989, at the Clarion Hotel in St. Louis, MO. For information, write to: Suite 400, 2200 Wilson Boulevard, Arlington, VA 22201-3301.

International Society of Regulatory Toxicology and Pharmacology Annual Meeting, October 2–3, 1989, Washington DC Marriott Hotel, Washington, DC. Inquiries to: C. Jelleff Carr, Ph.D., Secretary, 6546 Belleview Drive, Columbia, MD 21046, (301) 992-9083.

Methods in Behavioral Toxicology and Teratology, October 4–6, 1989, Exelsior Hotel, Little Rock, AR. For more information, contact either Drs. Merle G. Paule, R. Robert Holson, or Frank Scalzo, NCTR HFT-134, Jefferson, AR 72079, (501) 541-43094/4203.

Preclinical Safety Evaluation of Biomaterials, October 17–20, 1989, Holiday Inn, Burlington, NC. For additional information, contact: Barbara E. Sagartz, 2990 Anthony Road, Burlington, NC 27215; (919) 229-0557.

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Placement Services

Positions Available/Position Wanted

Pharmacologist, GS-13

Salary: \$41,121

U.S. Government organization seeks individual to manage pharmaceutical products through the development process to include ultimately new drug application approval. Activities to be coordinated include: formulation, clinical studies, toxicology, regulatory affairs, packaging, producibility, quality control, user testing, and reliability. Incumbent will coordinate efforts from both in-house laboratories and contractors. Experience in pharmaceutical product and/or regulatory affairs helpful. Requires travel within and outside the continental United States.

Contact Patricia Shafer, 301-663-2007
Mailing Address: Directorate of Personnel,
Fort Detrick, Frederick, MD 21701-5000

Equal Opportunity Employer

Corporate Staff Toxicologist

Our client, a Fortune 100 company in the Southwest, is seeking a Corporate Staff Toxicologist. The ideal candidate would possess a PhD degree in a related field and be ABT eligible.

Responsibilities include all phases of Toxicology on a corporate-wide basis: developing product health hazard statements for MSDS, monitoring testing programs in contract labs, developing risk analysis and risk assessment projects, identifying health hazards on engineering projects, responding to emergency exposure limitations for reproductive protection, and developing Environmental Toxicology Assessments and Testing programs.

For a confidential appointment call:

F-O-R-T-U-N-E Personnel consultants of Houston, Inc. (713)
680-9132.

Glidden Company

The Glidden Company is an established leader in the U.S. paint industry and part of ICI Paints worldwide business. We have immediate opportunities for individuals in our product safety and toxicology function.

Manager-Product Safety and Toxicology—10+ years experience in toxicology required including demonstrated management skills. A graduate degree in an appropriate scientific discipline (i.e., toxicology, industrial hygiene) or equivalent experience also required.

Toxicologist—Qualified candidate will have 3+ years professional training in toxicology or industrial hygiene and B.S. degree in Toxicology or related major.

We offer an excellent compensation and benefits package and the opportunity to work in our modern, state-of-the-art Research Center in Strongsville, Ohio. For consideration, please send your resume with salary history to S. Whitman, The Glidden Company, 925 Euclid Avenue, Cleveland, Ohio 44115. An equal opportunity employer m/f/h/v.

Eli Lilly Toxicology Division

Eli Lilly and Company is seeking a self-motivated, innovative scientist for the Toxicology Division. The scientist will actively participate in the design, conduct, and analysis of *in vivo* disposition studies utilizing the whole-body autoradiographic and dissection techniques to determine the tissue distribution, placental transfer, and milk excretion of compounds. A B.S. or M.S. degree in biological science, preferably pharmacology, toxicology, biochemistry, or physiology is required. Experience and knowledge with animal handling and surgery, computer science, scientific writing, and radiotracer methodologies are preferred. For prompt consideration, please forward your *curriculum vitae* to: Raymond C. Pohland, Ph.D., Eli Lilly and Company, Greenfield Laboratories, P.O. Box 708, Greenfield, IN 46140.

(Equal Opportunity Employer)

Eli Lilly and Company is seeking a self-motivated, innovative scientist for the Toxicology Division. The scientist will actively participate in the design, conduct, and analysis of *in vitro* and *in vivo* nephrotoxicity studies. A B.S. or M.S. in biology, physiology, biochemistry, or pharmacology is required. Experience and knowledge in HPLC technology, intermediary metabolism, enzymology, renal physiology, general cell biology and culture techniques are preferred. The successful candidate will be expected to have excellent organizational and communication skills. For prompt consideration, please forward your *curriculum vitae* to: Glenn F. Rush, Ph.D., Eli Lilly and Company, Greenfield Laboratories, P.O. Box 708, Greenfield, IN 46140.

(Equal Opportunity Employer)

Eli Lilly and Company is seeking a self-motivated, innovative scientist for the Toxicology Division. The scientist will actively participate in the design, conduct, supervision, and analysis of *in vivo* developmental toxicology studies. A B.S. or M.S. degree in biology, reproductive physiology, embryology, anatomy, toxicology, or pharmacology is required. Experience and knowledge with the conduct, evaluation, and reporting of teratology and reproduction data are preferred. Expertise in animal handling, computer science, and scientific writing are desirable. For prompt consideration, please forward your *curriculum vitae* to: Janet K. Markham, Eli Lilly and Company, Greenfield Laboratories, P.O. Box 708, Greenfield, IN 46140.

(Equal Opportunity Employer)

Eli Lilly and Company is seeking a self-motivated, innovative scientist for the Toxicology Division. The scientist will actively participate in the design, conduct, supervision, and analysis of *in vivo* and *in vitro* reproduction slides. A B.S. or M.S. degree in biology, reproductive physiology, anatomy, toxicology, or embryology is required. Experience and knowledge with *in vitro* fertilization and embryo implantation assays, embryo cleavage methods, animal handling and surgery, computer science, and scientific writing are preferred. For prompt consideration, please forward your *curriculum vitae* to: David E. Seyler, Ph.D., Eli Lilly and Company, Greenfield Laboratories, P.O. Box 708, Greenfield, IN 46140.

(Equal Opportunity Employer)

For information regarding submitting a Placement Service advertisement, please contact Donna Thomas at SOT headquarters.

Watching Washington

Revlon Halts Animal Testing

Revlon, Inc., effective June 30, 1989, has discontinued the use of "animal testing in research, development and manufacturing of all its products." "Revlon will rely on the judgment of pharmacologic, toxicologic and medical experts, non-animal alternative test methods and the past safety history of formulations and ingredients to determine product safety . . ." Revlon's announcement culminates a 14-year program to end its own animal testing.

Majority Supports Animals in Research, Says American Medical Association Survey

The results of a Gallup Organization Study commissioned by the American Medical Association (AMA) reveal that more than three-fourths of American adults support the use of animals in medical research. Of the 1,500 adults surveyed, 77 percent believe animal research furthers progress in medicine and 17 percent disagreed. Slightly fewer respondents, 64 percent, actually supported the use of animals in biomedical research, 29 percent opposed it and six percent were unsure.

Nearly three-quarters of the survey group favored the use of pound animals for biomedical research, and 22 percent opposed such research. Less than one-third of those surveyed knew that government regulates the complete care and treatment of test animals, while 34 percent did not know of government regulation in the field, and the remaining 34 percent were unsure.

Bill Would Include Mice, Rats and Birds Under Animal Welfare Act

A bill, HR 2766, introduced by Rep. Edolphus Towns (D-NY), would "amend the Animal Welfare Act (AWA) to include mice, rats and birds within the definition of animals protected under the Act. Since amendment in 1970, the AWA has protected, by definition, live or dead dogs, cats, monkeys, guinea pigs, hamsters, rabbits or "such other warm-blooded animal, as the Secretary may determine is being used . . ."

Mice, rats and birds were not previously included under the Act. Their inclusion is assumed to further stretch the already over-taxed APHIS resources.

**Mark your Calendar Now
for the
Annual Meeting
February 12-16, 1990
Fountainbleau Hilton Hotel
Miami Beach, Florida**

Coming Events

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Tenth Symposium on Pesticide Formulations and Application Systems, October 25-26, 1989, Denver Marriott City Center, Denver, CO. Contact: Anne McKlindon, ASTM 1916 Race Street, Philadelphia, PA 19103-1187; (215) 299-5490.

Toxicology for the 1990's in the Southwestern United States, November 10-11, 1989, San Antonio, Texas. Sponsored by Gulf Coast Society of Toxicology, Southwestern Association of Toxicologists and Southwest Environmental Mutagen Society. For more information, contact: Dr. John A. Dellinger, Manager, Toxicology and Applied Pharmacology, Southwest Research Institute, 6220 Culebra Road, San Antonio, TX 78228-0510; (512) 522-2569.

Third International Congress and Fair for Environmental Technology, November 21-23, 1989, Linz, Austria. For information, contact either the Austrian Trade Commission, or the organizer directly: Trend Commerz BmbH, A-4021 Linz/Austria, P.O.B. 765, (tel) (732) 27 45 75.

Fourth International Meeting on Biological Reactive Intermediates, hosted by the University of Arizona Center for Toxicology, January 14-17, 1990 at the Double Hotel, Tucson, AZ. For further information, contact: Dr. I. Glenn Sipes, College of Pharmacy, University of Arizona, Tucson, AZ 85721, (602) 626-7123.

Second International Conference on Environmental Analytical Chemistry; Workshop on Identification of Problems, Methods and Monitoring Applications within the Pacific Basic Rim Nations, January 17-19, 1990, Honolulu, HI. For information, contact: Dr. S. Hanamura, The Center for Environmental Research, 468 Hollister Hall, Cornell University, Ithaca, NY 14853; (607) 255-6837.

Organophosphates: Chemistry, Fate and Effects, April 22-27, 1990. For further information, contact: ACS Meetings, 1155 16th St., NW, Washington, DC 20036, or Dr. Janice Chambers, Department of Biological Sciences, Mississippi State University, PO Drawer GY, Mississippi State, MS 39762; (601) 325-7572.

Association for Behavior Analysis, 16th Annual Convention, May 27-31, 1990, Opryland Hotel, Nashville, TN. For information, contact: ABA, Western Michigan University, 258 Wood Hall, Kalamazoo, MI 49008-5052. Telephone: 616-387-4495.

Twelfth European Workshop on Drug Metabolism, September 16-21, 1990, Basel, Switzerland. For information, contact: Scientific Secretariat and/or Administrative Secretariat, 12 European Workshop on Drug Metabolism, P.O. Box 141, Ch-4007, Basel/Switzerland; phone 061/697 27 80, 061/696 63 06.

Indoor Radon and Lung Cancer: Reality or Myth: Twenty-Ninth Hanford Symposium on Health and the Environment, October 16-19, 1990, Richland, WA. Inquiries should be addressed to: Fredrick T. Cross, Ph.D., Symposium Chairman, Biology and Chemistry Dept., Battelle, Pacific Northwest Laboratories, Richland, WA 99352; (509) 375-2976.