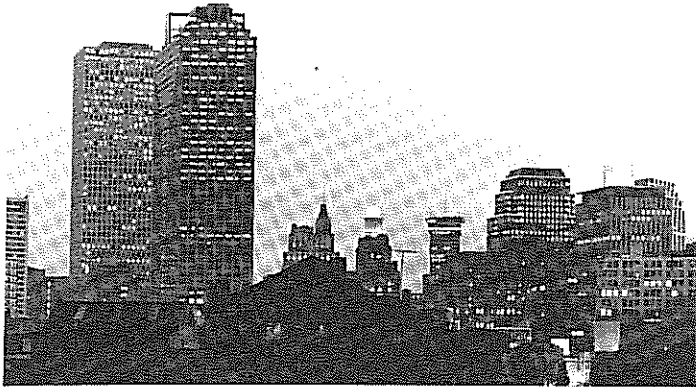


# Society of Toxicology NEWSLETTER

JULY/AUGUST 1992



*Mark your calendars now to attend the SOT 1993 Annual Meeting, March 14-18, 1993 in New Orleans, Louisiana.*

## SOT 1993 New Orleans Annual Meeting: Call for Abstracts

The Society of Toxicology encourages each member to participate in the 1993 Annual Meeting to be held in New Orleans. SOT members are encouraged to share their efforts and activities with their fellow toxicologists. For member convenience, abstract submission forms are enclosed with this newsletter.

Abstract submission will include: an original abstract form, two copies, and an abstract submission fee of \$30 per abstract. When more than one abstract is submitted in the same envelope, the number of abstracts should be clearly indicated on the lower right hand corner of the envelope. Abstracts containing errors will be returned and authors will be charged for any necessary retyping by Headquarters.

The Program Committee is instituting a new scanning process this year as the first step toward electronic submission of abstracts. Please read the abstract submission instructions carefully. Your cooperation in properly completing the form is appreciated.

Deadline for submission: **October 2, 1992** to Program Committee, c/o Executive Secretary, Society of Toxicology, 1101 Fourteenth Street, NW, Suite 1100, Washington, DC 20005-5601. (202) 371-1393.●

## Burroughs Wellcome Award Goal is Revised

The Burroughs Wellcome Fund announces its **REVISED** program for the 1993 Toxicology Scholar Award. The goal of the revised program is to promote toxicology by providing an individual the opportunity for career development in toxicology. The scholar need not be associated with an established toxicology program, but rather may be conducting research in an area that will impact the discipline of toxicology.

The Toxicology Scholar Award is a five year award of \$350,000 payable at the rate of \$70,000 annually. Individuals holding a doctorate degree, and generally at a rank equivalent to associate professor are encouraged to apply. Award selection is made with the guidance of a five-member advisory committee reporting to the Council of the Society of Toxicology and The Burroughs Wellcome Fund.

Applications may be obtained from The Burroughs Wellcome Fund, 3030 Cornwallis Road, Research Triangle Park, NC 27709. Telephone: (919) 248-4136. Applications are due at The Fund by **December 2, 1992**.●

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**Society of Toxicology**  
 1101 14th Street, NW  
 Suite 1100  
 Washington, DC 20005-5601  
 (202) 371-1393  
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**Deadline for next issues:**  
 August 10, 1992  
 October 10, 1992  
 December 10, 1992

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

## President's Message

Educational activities have always been at the core of our Society's endeavors. In this we have been true to our Constitutional charter: "The purpose of the Society shall be to promote the acquisition and utilization of knowledge in toxicology and to facilitate the exchange of information among its members as well as among investigators of other scientific disciplines." Our founders, aware of the need to distinguish the toxicologist from the existing disciplines, wisely chose to do this by example rather than definition. Professional societies are defined over time, not only by their membership, but also by those whom they choose to honor. Was there ever a more distinguished company of educators than the three honorary members named at the first annual meeting on April 15, 1962: **Torald Sollman; E.M.K. Geiling; and Wolfgang Felix von Oettingen?**

Edward Gibbon noted in his memoirs that, "every man who rises above the common level receives two educations: the first from his instructors; the second, the most personal and important, from himself." Our efforts to interest and recruit the best talent to the study of toxicology speak to the first; our meetings afford a continuing education and give our members an opportunity to accomplish the second.

Our Society's educational activities are centered in five committees: the Program Committee, the Education Committee; the *ad hoc* Tox 90s Educational Issues Task Force; the Continuing Education Committee; and the Committee on Public Communications. The present focus will be on the latter four; given the fact that there was a significant review of the Program Committee's activities in the last newsletter.

**Garold Yost** follows **Steve Safe** as the new chair of our Education Committee. This Committee is already busy with plans to secure another NIH Minority Grant to continue to build on our past successes in the minority recruitment program at our Annual Meeting. Working with the members of the Education Committee and **Marion Ehrich**, Council liaison, the Committee hopes to have an even larger number of minority travel awardees than at Seattle. There were eleven member volunteer hosts for the awardees last year. Please contact Gary for an opportunity to participate as mentor or host in the 1993 program. This Committee continues to sponsor the New Investigators Forum at our Annual Meetings, and has responsibility for the administration of Graduate Student Travel Awards, Pre-doctoral Fellowships, and Post-doctoral awards. Applications for Student Travel Awards in the past four years have exceeded our ability to fund these requests by 40-60%. This is an item that will have a high priority for funding when further support is found.

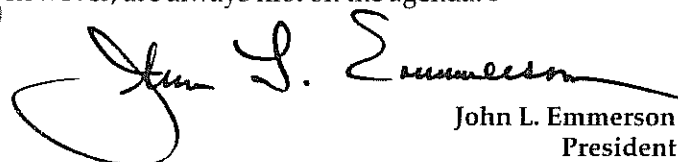
The *ad hoc* Tox 90s Educational Issues Task Force, which has been chaired during the past year by **Michele Medinsky**, has just finished with the publication of the 2nd Edition of the Resource Guide to Careers in Toxicology. This publication, as well as the wall posters, brochures, and student mailings, has served as a tremendous stimulus for young people to become acquainted with opportunities in Toxicology. Although the program is in the fourth year, we are still averaging around 200 student responses each month to the Careers in Toxicology posters. Since the program was started, 8960 Resource Guides have been mailed to students in response to postcard requests. The summer intern program was successfully launched in 1989 and has been hampered only by a shortage of sites available for student applicants. Sixteen students are working in laboratories this summer in this very successful Tox 90s program. The 1992-93 Committee, whose chair is **Gary Rankin** (Council liaison, Marion Ehrich), continues to focus on these educational initiatives and on the recruitment of toxicologists. Looking forward to the next Annual Meeting, the Committee expects to continue a dialogue on undergraduate education in toxicology that began with a workshop at the Seattle meeting.

Many of these educational initiatives are sponsored in part by our Corporate Associate Membership dues. If you are a member of an organization that is not a Corporate Associate and is a candidate, I encourage your consideration of membership. Alternatively, there are many other opportunities to fund special educational functions that are not supported by Corporate dues, (e.g. the Student Luncheon and the Minority Poster Session). Please contact SOT Headquarters to obtain further information.

In my last letter I acknowledged the outstanding past effort of the Continuing Education Committee chaired by **Ken Wallace**, but I wanted to mention that the new courses for the 1993 meeting have been selected and were approved by Council at the May meeting. Council liaison **Jim Bus** reported that the CE Committee was even ahead of last year in their current preparations.

Council liaison **Dan Acosta** reported that the Committee on Public Communication has, in its first meeting of 1992, assigned the highest priority to two items: the development of a script for the Basic Toxicology slide set and the creation of a new set of slides on Risk Assessment. The success of the first effort by this committee with the Basic Toxicology slide set indicates that these educational and communication adjuncts fulfill a real need of our members. It is the intention of the Committee to develop these and other tools to enable our individual members to educate and to represent our science to the public. Chair **Don deBethizy** and the Committee members are also continuing the efforts of former chair **Chris Wilkinson** and the past committee to focus on ways to help our members interact with the media and to facilitate media coverage of our Annual Meetings. There was a good beginning made in Seattle.

I continue to be amazed by the accomplishments of our committees and our members, given the knowledge that all are volunteer and part-time workers in Society activities. Our past success is tied, I believe, to the fact that we have been realistic in our aspirations, and tenacious in our pursuit of realizable goals--that and the energy and dedication of individual members. To the extent that we venture into projects for which we are ill-equipped, we fail. We are not constituted to be a lobbying group nor are we well-suited to respond quickly to issues that require a fast, authoritative Society response, e.g., a position paper. A membership that is as diverse as ours will always recognize many needs that are unmet. The key is to strike a balance between those activities intrinsic to our constitutional purpose and those that are ancillary. The vision that directs those decisions continues to be debated by each new Council as we assign priorities and manage our income. The Society's educational programs, however, are always first on the agenda. ●

  
**John L. Emmerson**  
 President

## Nominations Sought for 1993 Ballot

**T**he Nominating Committee asks your help in the preparation of the slate of nominees for the 1993 SOT elected officers and members of elected standing committees. The offices to be filled in 1993 include the Vice President-Elect, Secretary-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: **Curtis D. Klaassen**, Chairperson, **Carol J.M. Henry**, **James A. Popp**, **James E. Gibson**, **A. Jay Gandolfi** or **Meryl H. Karol** (liaison).

Act now! Your suggestions must be received by **October 1, 1992**. ●

## Society of Toxicology Award Nominations Invited

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

Each nomination must be submitted by a sponsor and a seconder who are members of SOT. The quality of supporting documentation is critical in the review of the nomination of each candidate. Please send all nominations and supporting documentation to the Awards Committee chairperson, **Dr. Donald J. Reed**, SOT Headquarters. Deadline for receipt of nominations for 1993 Awards is **October 1, 1992**. ●

## Nominations Invited for SOT Honorary Memberships

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

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

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

## SOT Student Travel Awards

The Society of Toxicology's Student Travel Award Funds, administered by the Education Committee help defray travel expenses for students attending the 1993 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).
- 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 **October 2, 1992**.

Applications will be mailed to all SOT student members in August. ●

## ICI Traveling Lectureships

The ICI Traveling Lectureships are presented by the Society of Toxicology in recognition of excellence in research and service in toxicology. ICI provides two \$6,000 awards annually to promote greater collaboration between European and North American toxicologists. These awards are intended to enable North American toxicologists to undertake a three to four week lecture tour of Europe, familiarize themselves with research and regulatory issues in Europe, as well as to bring a North American perspective to European regulatory issues.

Candidates for these awards should be established, mid-career North American scientists who are members of the Society of Toxicology and who demonstrate the ability to develop collaborative relationships with European colleagues.

Applications should be made to the SOT Awards Committee and must include a statement of the applicant's experience and area of expertise. A proposed itinerary and its underlying rationale should be provided, along with an indication of the benefits that the lectureship will confer on the applicant. The itinerary must include a visit and lecture at ICI's Alderley Park Facility in Cheshire, England. The application should not exceed 1,500 words.

The following format is suggested for the application:

1. Name and affiliation
2. Statement of experience and expertise
3. Proposed lecture itinerary
4. Rationale for itinerary
5. Statement of benefits to the applicant
6. Curriculum vitae

The Society of Toxicology Awards Committee, chaired by **Dr. Donald J. Reed**, will select recipients for the ICI Traveling Lectureships. The awardees will be named at the SOT 1993 Annual Meeting. Applications for the 1993 ICI Traveling Lectureship Awards must be received at SOT Headquarters by **October 1, 1992**. ●

## Publications of Interest

*Advances in Mercury Toxicology*, Rochester Series on Environmental Toxicity, Tsuguyoshi Suzuki, Nobumasa Imura, Thomas W. Clarkson, Plenum Publishing Corporation, 233 Spring St., New York, NY 10013, 212/620-8000.

*The Agrochemicals Handbook* (Third Edition, with updates), Royal Society of Chemistry, CRC Press Inc., 2000 Corporate Boulevard N.W., Boca Raton, FL 33431 USA.

*Drug Resistance As A Biochemical Threat in Cancer Chemotherapy*, Bristol-Myers Squibb Cancer Symposia, Takashi Tsurio, Makoto Ogawa and Stephen Carter, Academic Press, 1250 Sixth Avenue, San Diego, CA 92101.

*Environmental Epidemiology: Public Health and Hazardous Wastes*, National Research Council, National Academy Press, 2101 Constitution Avenue, NW, Washington, DC 20418, 202/334-3180.

*European Directory of Agrochemical Products* (Fourth Edition), Royal Society of Chemistry, CRC Press Inc., 2000 Corporate Boulevard, N.W., Boca Raton, FL 33431 USA.

*In Vitro Toxicity Testing: Applications to Safety Evaluation*, John M. Frazier, Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 10016, 212/696-9000.

*Managing the Clinical Drug Development Process*, David M. Cocchetto, Ronald V. Nardi, Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 10016, 212/696-9000.

*Material Safety Data Sheets: The Writer's Desk Reference*, Richard P. Molinelli, Michael J. Reale, Ralph I. Freudenthal, Hill and Garnett Publishing, Inc., P.O. Box 810847, Boca Raton, FL 33481-0847, 407/750-7066.

*Melmon & Morrelli's Clinical Pharmacology*, Kenneth L. Melmon, et al., McGraw-Hill, Health Professions, 28th Floor, 1221 Avenue of the Americas, New York, NY 10020 Attn.: Jack Farrell.

*1992 Update: Water Pollution Control Industry Outlook*, William T. Lorenz & Co., 85 Warren Street, Concord, NH 03301, 603/228-3373.

*Pesticide Re-registration Progress Report*, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

*Winning at FDA: A Strategic Guide*, Washington Business Information, Inc., 1117 North 19th Street, Arlington, VA 22209-1798. 703/247-3434.

*When Science Meets The Public*, Bruce V. Levenstein, American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005.

*Xenobiotics and Cancer: Implications for Chemical Carcinogenesis and Cancer Chemotherapy*, Lars Ernster, Hiroyasu Esumi, Yoshiaku Fujii, Harry V. Gelboin, Ryuichi Kato and Takashi Sugimura, Hemisphere Publishing Corporation, c/o Taylor & Francis, 1900 Frost Road, Suite 101, Bristol, PA 19007, 215/785-5800. ●

## Upcoming Conferences

**Mechanisms of Immunotoxicity Symposium: Pulmonary Immunotoxicology/Allergy**, September 2-4, 1992, Virginia Beach Resort Hotel and Conference Center, Virginia Beach, VA. Contact: Denise White Johnson, 804/786-1180.

**Information Resources on Animal Issues**, September 8, 1992, Turf Valley Hotel, Ellicott City, MD. Contact: NCAB/AALAS, Vincent Perrotta, 13201 Trimfield Lane, Germantown, MD 20874-1147.

**International Conference on Male-Mediated Developmental Toxicity: Father's Exposures and Their Children's Health**, September 16-19, 1992, Westin William Penn Hotel, Pittsburgh, PA. Contact: Mary C. Chabala, University of Pittsburgh, 412/647-8126.

**Refinement and Reduction Strategies in Animal Testing**, September 17-18, 1992, Philadelphia Court Hotel, Philadelphia, PA. Contact: SCAW, 4805 St. Elmo Avenue, Bethesda, MD 20814, 301/654-6390.

**Current Concepts in Inhalation Toxicology**, October 26-29, 1992, Albuquerque, NM. Contact: Mildred Morgan, Inhalation Toxicology Research Institute, P.O. Box 5890, Albuquerque, NM 87185, 505/845-1124.

**Fourth North American International Society for the Study of Xenobiotics (ISSX) Meeting**, November 2-6, 1992, Bal Harbour, FL. Contact: Ms. Nancy Holahan, ISSX, P.O. Box 3, Cabin John, MD 20818, 301/983-2434.

**Husbandry and Use of Agricultural Animals in Research**, November 5, 1992, Anaheim Convention Center, Anaheim, CA. Contact: Scientists Center for Animal Welfare, 4805 St. Elmo Avenue, Bethesda, MD 20814, 301/654-6390.

**Environmental Biotechnology Course**, November 10-13, 1992, Luzern, Switzerland. Contact: European Environmental Research Organisation, P.O. Box 182, 6700 AD Wageningen, The Netherlands, 31/8370-84924.

**Environmental Chemistry of Organic Pollutants: Risk Assessment of Chemicals**, December 6-9, 1992, Siena, Italy. Contact: European Environmental Research Organisation, P.O. Box 182, 6700 AD Wageningen, The Netherlands, 31/8370-84924.

**Introduction of Genetically Modified Organisms into the Environment: Biosafety Aspects**, December 10-18, 1992, Wageningen, The Netherlands. Contact: European Environmental Research Organisation, P.O. Box 182, 6700 AD Wageningen, The Netherlands, 31/8370-84924.

**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.

**Society of Toxicology 1993 Annual Meeting**, March 14-18, New Orleans, LA. Contact: Erin McFall, 202/371-1393; Fax: 202/371-1090.●

## Colgate-Palmolive Postdoctoral Award

The Colgate-Palmolive Postdoctoral Award for *In Vitro* Toxicology invites nominations of individuals conducting research in any aspect of *in vitro* toxicology. The award is available to postdoctoral trainees in their early years of study beyond the Ph.D., M.D. or D.V.M. degrees who are employed by academic institutions or research institutes worldwide. The postdoctoral advisor must, however, be a member of SOT. This 2-year \$67,000 award includes an annual stipend of \$22,000, and additional funds that may be used for supplies, equipment, or research-related travel. The application deadline is **October 23, 1992**. The award will be presented at the SOT Annual Meeting in New Orleans, with funding to begin at that time or anytime prior to September 1, 1993. Application materials can be obtained from the Education Committee, Society of Toxicology, 1101 Fourteenth Street, NW, Suite 1100, Washington, DC 20005-5601.●

## Graduate Student Fellowship Awards

The Society of Toxicology, through the Education Committee, announces the availability of Graduate Student Fellowship Awards in Toxicology. The Awards are sponsored by Ciba-Geigy, Hoffmann-La Roche, Hazleton Laboratories Corporation, and Procter & Gamble. Fellowship Awards are for one year and are administered by the academic department of the awardees.

Any graduate student with at least two years of graduate study toward a 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 2, 1992**. Finalists will be invited to attend the Society of Toxicology 1992 Annual Meeting for an interview. The winners of these awards will be announced at the Annual Meeting. These are prestigious awards of \$12,000 each and the applications, which are easy to complete, are available from the Education Committee, Society of Toxicology, 1101 Fourteenth Street, NW, Suite 1100, Washington, DC 20005-5601.●

## Procter & Gamble Announces Alternative Grant Program

The Procter & Gamble Company is inviting the submission of research proposals directed toward development and validation of new methods for efficacy and safety testing of drugs and consumer products. Three grants will be awarded in 1993. Funding will be up to \$50,000 annually for three years.

The Animal Alternatives Research Program focuses on alternative testing methods that eliminate or reduce the use of animals, or that are less stressful to animals. These alternative methods may include the use of cell, tissue, or organ cultures and other *in vitro* test systems, as well as refined animal tests such as non-invasive assessment methods.

Areas of particular interest to the sponsor are:

### Efficacy Testing

- Inflammation/ Arthritis
- Diseases of the Oral Cavity
- Nutritional and Gastrointestinal Disorders
- Cardiovascular Disorders
- Bone Disorders
- Skin Disorders
- Respiratory Diseases
- Rational Drug Design
- Structure-Activity Relationships

### Safety Testing

- Ocular Irritation
- Acute Oral Toxicity
- Skin Irritation and Contact Sensitization
- Developmental Toxicity
- Respiratory Toxicity
- Neurotoxicity
- Computer Modeling of Toxicologic Processes
- Structure-Activity Relationships

Requests for proposal application forms or questions regarding application procedures may be directed to University Animal Alternatives Research Program, The Procter & Gamble Company, Miami Valley Laboratories, P.O. Box 398707, Cincinnati, Ohio 45239-8707. The fax number is 513/627-1153.

The deadline for applications is **September 1, 1992**. ●

**Next SOT Membership Deadline**

**September 1, 1992**

## Poster Session for Minority Students at New Orleans Meeting

The Tox 90s *ad hoc* Educational Issues Task Force would like to remind SOT members of the Poster Session being organized for minority students at the 1993 Annual Meeting in New Orleans. In conjunction with the SOT Education Committee's Toxicology Workshop for minority students, a poster session of 40-50 posters, preferably from minority scientists and individuals who would like to interact with these students, is being organized for a morning session. This session is in addition to the normal presentation of the posters in a scientific session.

The primary purpose of this special poster session is to offer a specific opportunity for the minority students participating in the Education Committee's Workshop to attend a specific scientific session, as well as interact with other scientists. We are seeking minority and other scientists who would be willing to put up their poster for this special poster session. Minority scientists, graduate students, postdoctorates or established scientists interested in participating in this poster session should contact **Dr. Gary O. Rankin**, (304) 696-7313, as early as possible.

In addition, the Education Committee is seeking "mentors" to make the minority students feel welcome, as well as accompany the students to special sessions and functions. About 10-15 volunteers with responsibility for two to four students and minority advisors each are required. Please call Trish Small at SOT Headquarters, (202) 371-1393, if you are willing to help.

All SOT members are welcome to participate in this session, either as poster presenters or as mentors. ●

## Chapter News

The Southern California Chapter's Annual Meeting was held March 18 on the UC Irvine campus. Approximately 60 people attended the day-long event which included a business meeting, a poster session, an overview of the UC Irvine research program, lunch and a dioxin symposium. Winners of the poster awards were Yixiang Chen, a USC graduate, and Dr. O.A. Ogunseitan, a post-doc at UC Irvine.

The symposium entitled "Dioxin Problem: New Frontiers" was organized and introduced by Dr. Dan Menzel, chairman, Community & Environmental Medicine Department, UCI. Dr. Melvin Anderson, CIIT, discussed the current state of the knowledge of dioxin receptor binding and PBPK modeling in dioxin risk assessment. Dr. Rick Becker, from the California Department of Toxic Substances provided insight into how dioxin risks are characterized at Cal-EPA. ●

## ICT VII Looks To The Future

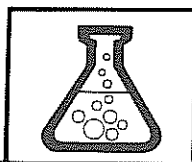
The VII International Congress of Toxicology (ICT VII) will be held in Seattle, Washington, July 2-6, 1995. The program, based on the theme "Horizons in Toxicology: Preparing for the 21st Century" is hosted by the Society of Toxicology in conjunction with the International Union of Toxicology. The sessions are envisaged to set the stage for the exchange of ideas and information among the world's leading toxicologists.



Tentatively, the overall program will consist of scientific exhibits, one Deichmann Lecture, not more than 11-13 symposia, not more than 5 plenary lectures, poster sessions, possible workshops and one day of continuing education.

Program proposals should be sent to **Dr. Donald J. Reed**, Chairperson, ICT VII Program Committee, c/o Biochemistry & Biophysics Dept., Oregon State University, Corvallis, OR 97331. Proposals should be received by **September 1, 1992**. ●

## Placement Services



### TOXICOLOGISTS

At Gilead Sciences, we have a novel approach to the discovery of human therapeutics through our pioneering work in nucleotide-based technology. We are developing a broad new class of potential pharmaceutical products--disease-fighting drugs that target cancer, cardiovascular disease, and viral infections. For Toxicologists, our exciting R&D environment and current drug discovery programs represent the opportunity to make a significant contribution.

In this position, you'll organize and monitor contract toxicology studies, set up and maintain the animal facility and design long-term toxicology strategies for development compounds. In addition, you'll interface with the Drug Delivery/Metabolism group to design *in vivo* pharmacokinetic studies and work closely with basic research in establishing internal and external pharmacology models.

As a Board Certified Toxicologist, you must possess a Ph.D. in Toxicology or a related field and have a thorough knowledge of regulatory requirements for registration of pharmaceutical products. Experience in *in vivo* pharmacology and pharmacokinetic modeling is also required.

As an emerging force in the pharmaceutical industry, Gilead provides a comprehensive compensation and reflects our leadership and commitment to our science. If you enjoy a team-oriented environment and would like to make an impact in the development of a new class of human therapeutics, please send your CV to: Human Resources, Gilead Sciences, 346 Lakeside Drive, Foster City, CA 94404. An equal opportunity employer. Gilead Sciences. ●

### TOXICOLOGIST

KRUG Life Sciences, the NASA Biomedical Operations and Research Laboratories contractor at Johnson Space Center, seeks a qualified toxicologist. Candidates should have a Ph.D. or equivalent degree in toxicology or other related discipline with specialization and research experience in biochemical toxicology. The major responsibility of this position is to provide toxicological support to the Environmental Health System of the Space Station Freedom by performing risk assessment and establishing Spacecraft Maximum Allowable Concentrations for airborne chemicals.

Submit resume, references, and salary history INDICATING POSITION #92-T34-01 to: June Richmond, Krug Life Sciences, P.O. Box 58827, Houston, Texas 77258-8827. E.O.E./M/F/H/V. ●

### ASSISTANT PROFESSOR OF TOXICOLOGY

The Department of Food Science and Toxicology at the University of Idaho invites applications for an Assistant Professor of Toxicology. This is a tenure track, fiscal year appointment of 60% research and 40% extension. Applicants must have a Ph.D. in toxicology or closely related science, working knowledge of risk assessment methods and basic concepts/principles of toxicology, research experience relating to the health effects of food or environmental contaminants, and demonstrated potential to obtain extramural research funding. Extension duties include communicating human health effects of exposure to chemicals, developing a computerized toxicological data base on health effects of chemicals of regional interest, and developing risk assessment/communication materials regarding chemicals in the food chain. Research duties include developing an externally funded program in environmental or food toxicology with emphasis on synthetic or natural pesticides.

The deadline for applications is September 1, 1992, or until a suitable applicant is found. Applicants should send a resume and a cover letter summarizing related position duties to Dr. Jerry Exon, Head, Department of Food Science and Toxicology, University of Idaho, Moscow, ID 83843 (208)885-7081 (phone). Also, three letters of reference should be sent separately by reviewers to this address prior to date. Women and minorities are encouraged to apply. ●

## RESEARCH ASSOCIATE -- TOXICOLOGY

Colgate-Palmolive is a world leader in consumer products with markets and subsidiaries in over 160 countries. Our dedication to improving our products and developing new ones requires that we continually attract quality professionals.

We are currently seeking an individual to join our Human & Environmental Safety Department. Requirements include a Ph.D. in Toxicology/Pharmacology with approximately 5 years' experience; supervisory skills; experience in directing or monitoring GLP safety studies; and the ability to critically assess and interpret research and testing data. The incumbent must also possess excellent communication skills, be able to handle multiple projects simultaneously and have a high degree of initiative and flexibility.

The successful candidate will have responsibility for staff supervision and project management, including setting up and evaluating safety studies, as well as preparing safety assessments to support judgments on submissions to regulatory agencies.

A position also exists for an entry-level Ph.D. in Toxicology/Pharmacology.

Our Corporate Technology Center is headquartered on a 75-acre campus in Piscataway, New Jersey. We offer a competitive benefits and compensation package and the opportunity to contribute to a challenging work environment. Please send your resume to: COLGATE-PALMOLIVE TECHNOLOGY CENTER, STAFFING Department DB, 909 River Road, Box 1343, Piscataway, NJ 08855-1343 or fax to 909-878-7183. We are committed to a culturally diverse workforce, M/F/H/V.●

## TOXICOLOGIST

Schering-Plough HealthCare Products is a growing \$700 million division of Schering-Plough Corporation and one of the top five healthcare products companies in the U.S. We are currently seeking a Toxicologist to work on our OTC Coppertone, Gynelotrimin, Afrin, Correctol and Drixoral.

In this Memphis, TN based position, you will set up safety studies including writing protocols, evaluating results and preparing reports, plus analyzing literature to assess safety of chemicals and products.

Requires a Ph.D. in Toxicology or related discipline and broad knowledge of toxicology and toxicology testing. Previous experience is preferred. In addition, good communication and decision-making skills are required.

We offer an excellent salary and benefits package. If you are seeking an opportunity with an industry leader, please forward your resume to: Schering-Plough HealthCare Products, Human Resources, Dept. 5178G, 3030 Jackson

Avenue, Memphis, TN 38151. An Equal Opportunity Employer, M/F/H/V.●

## BIOPHARMACEUTICAL TOXICOLOGIST

Synergen, Inc. is a young, rapidly growing research-based biopharmaceutical company located in Boulder, Colorado. Our focus is on the discovery, development, and production of protein-based pharmaceuticals for the treatment of serious human diseases. This position will utilize *in vivo* models to test preclinical safety of anti-inflammatory agents, cytokines, binding proteins, and neurotrophic factors. Other responsibilities include writing protocols for monitoring and interpreting contracted toxicology studies. Demonstrated experience in toxicology and physiology and *in vivo/in vitro* model experimentation, and a Ph.D. or DVM/Ph.D. with a minimum of two years' Post Doc. experience are required. First consideration will be given to candidates who have experience with immune hypersensitivity reactions and the FDA drug approval process.

Please send your resume to: Director of Recruitment, Box TNL or TND, Synergen Inc., 1885 33rd Street, Boulder, CO 80301. We are an Equal Opportunity Employer.●

## DIRECTOR, ENVIRONMENTAL SCIENCES

Compliance Services International, Inc., a growing firm serving the agricultural and industrial products market, is seeking a qualified manager to serve as Director of Environmental Sciences. Responsibilities include design, conduct, monitoring, and management of field and laboratory investigations, consulting to clients, presentations before government and public audiences, and management of professional staff. Knowledge of FIFRA, TSCA and OECD regulations is essential. Experience in working for the technical or regulatory department of chemical manufacturers in a management capacity is desired. A doctorate in fields related to toxicology, soil science, agronomy and chemistry is a plus. Good writing and communications skills are a must. Some domestic and overseas travel may be required.

Compliance Services International, Inc. is located 30 miles south of Seattle in Tacoma, Washington. Our experienced staff serves an international clientele as well as local companies. Salary will be commensurate with qualifications and experience.

All responses will be kept confidential. For inquiry, call Barbara Andersen at 1-800-545-4594, or send your resume and salary history to: Compliance Services International, Inc., 700 Seafirst Center, 950 Pacific Avenue, Tacoma, WA 98402.●



## EXECUTIVE DIRECTOR, TOXICOLOGY

The Executive Director, Toxicology, will be responsible for the effective administration of the Canadian Network of Toxicology Centres. This Network has received five years of funding from Canada's Green Plan and consists of three Nodes:

- The Toxicology Research Centre, University of Saskatchewan
- The Centre interuniversitaire de recherche en toxicologie Université de Montreal and Université du Quebec a Montreal, and
- The Centre for Toxicology, University of Guelph

The Green Plan funding of the Network will be administered by the University of Guelph and the Executive Director will be appointed at that location. He/she will report to the Network Management Committee of the Network Board of Directors, and will be expected to achieve coordination of research activities and technology transfer in toxicology among the three Nodes and be responsible for external relationships with other universities, granting councils and agencies, governments, industry and counterpart institutions.

The candidate selected will be a recognized scientist with extensive knowledge and experience in one or more fields of toxicology and a broad understanding of research and information needs appropriate to Canada's priorities in toxicology. He/she will have proven management and personnel skills and will engender a positive atmosphere of excellence, accomplishment and confidence. He/she must be able to set priorities, monitor accomplishments and communicate results. A working knowledge of the French Language is a requirement of this position.

This successful candidate will be appointed before April 1st, 1993, for an initial four year period. Depending on the mutual interests of the candidate and the University, a tenure or tenure-track appointment in an appropriate university department may be available.

The salary level will be consistent with the experience and qualifications of the appointee.

Interested applicants should provide a full curriculum vitae, a list of three references and apply to: Dr. L.P. Milligan, Vice President, Research, University of Guelph, Guelph, Ontario - N1G2W1, CANADA.

The University of Guelph is committed to an employment equity program that includes special measures to achieve diversity among its faculty and staff. We, therefore, particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minorities and women. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. ●

## SUPERVISOR OF TOXICOLOGY & RESEARCH SCIENTIST

Prestige worldwide Fortune 200 New Jersey-based consumer products/health care leader. SUPERVISOR OF TOXICOLOGY: 5+ years experience - at least one year in a supervisory role. Supervise three Ph.D.s in toxicology testing programs, safety assessments, federal regulatory and testing lab liaison, etc. RESEARCH SCIENTIST. Requirements are similar to afore-referenced position, except non-supervisory. Salaries and benefits extremely competitive. Promotional atmosphere! Full relocation package. Call, fax or mail resume immediately to Ken Rathbone, Tech Recruiters, 77 Milltown Rd., East Brunswick, NJ 08816, (908) 390-5550, Fax (908) 390-1453. ●

## POSTDOCTORAL POSITION: DEVELOPMENTAL TOXICOLOGY

A postdoctoral position is available to study the role in teratogenesis of chemically-induced metallothionein synthesis and/or hepatic acute phase response in the pregnant animal. The laboratory takes a diverse approach (molecular, biochemical, physiological, embryological) to the study of this and other teratogenic mechanisms. Candidates with experience in toxicology or developmental biology are preferred. Our laboratory is part of a large group carrying out basic research in toxicology in a collegial atmosphere where publishing results is stressed. Salary based on a competitive industrial scale. Applicants must be presently authorized to work in the U.S. on a full-time basis. Send CV, representative publications, and names of three references to: Dr. George P. Daston, Miami Valley Laboratories, The Procter & Gamble Company, P.O. Box 398707, Cincinnati, OH 45239. Procter & Gamble is an equal opportunity employer. ●

## RISK ASSESSMENT SPECIALIST

CH2M HILL, an employee-owned environmental consulting engineering firm with over fifty offices nationwide, currently has openings for experienced risk assessors in the Denver, CO office. 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 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, CH2M HILL, P.O. Box 221111, Denver, Colorado 80222-9998. ●

## Watching Washington



### **South Carolina and Tennessee Enact Facility Protection**

**Legislation:** Both South Carolina and Tennessee have joined the ranks of those states that provide laws to protect their researchers and research facilities from the illegal activities of animal rights extremists.

South Carolina's new law will prohibit the following: acquiring animals or property from an animal facility without the owner's consent; disrupting or damaging the enterprise conducted at a facility; entering and/or remaining concealed in a facility with the intent to commit an act prohibited by this law; remaining in a facility knowing that entry was forbidden or after receiving notice to depart.

Penalties for violating the law range from misdemeanor to felony. Tennessee's new law forbids similar actions and provides similar penalties to those outlined in the South Carolina law. The Tennessee law provides for recovery of all actual and consequential damages, punitive damages, and court costs; including reasonable attorney's fees. Additionally, the Tennessee law states that a victim may apply for an injunction or temporary restraining order.

Laws protecting research facilities and employees now exist in 28 states.

**Illinois Animal Testing Bill Defeated:** The Illinois House of Representatives defeated HB 1042, a bill that would have prohibited the use of the Draize Test, or any substantially similar test "for the purpose of testing cosmetics or household washing, cleaning or laundry products."

HB 1042 was based on the false assumption that valid non-animal toxicity tests are now available to totally replace animal toxicity tests. This fallacy was addressed last year by former Surgeon General Dr. C. Everett Koop who told a press conference, "There is no substitute if we are to ensure the safety of all consumer products. Any legislation that bans animal-based research that ensures product safety is, quite literally, hazardous to human health." Dr. Koop went on to state that, at present, alternative tests are only adjunct tests and do not eliminate the need for animal testing.

### **FDA Proposing "Harmonized" Animal Testing**

**Guidelines:** The Food and Drug Administration has announced the availability of a proposed document describing implementation of the consensus reached thus far by the Safety Working Group of the International Conference on Harmonization (ICH). The proposal covers scientific and technical aspects of conducting single-dose toxicity studies, reproduction and developmental studies, long-term toxicity studies, carcinogenicity studies and the timing and duration of studies to be submitted to FDA in support of new drug applications. The ICH is concerned with harmonization of the requirements of the EEC, Japan and the U.S. ●

## SOT & Other Scientific Organizations Highlight Link Between Animal Research and Medical Progress

**T**he Society of Toxicology joined with hundreds of organizations representing patients' groups, practicing physicians, researchers, veterinarians and the nation's leading medical schools on June 10 as part of an all-day event in Washington, D.C. focusing on the connection between animal research and medical progress.

More than 200 people turned out on Capitol Hill to hear Antonia Novello, M.D., U.S. Surgeon General and others speak on the vital link between laboratory animal research and human health. The event underscored the public's right to improved medical care through the use of animals in research.

**Robert Petersdorf, M.D.,** a co-chairman of the event, told attendees, "We

speak for the majority. Our 250 member organizations represent over 47 million people... who know human life is at stake; human health is the real issue."

The event was well-attended by members of Congress and congressional staff and received a sizable amount of national media coverage.

**Tom C. Hamm, Jr.,** Chairperson of the SOT Animals in Research Committee and **Joan Walsh Cassidy,** Executive Secretary, represented SOT at the Congressional Day. Other SOT members also attended as representatives of their institutions or other societies.

As part of the event, members of the Saving Lives Coalition visited their representatives and senators before reconvening for a news briefing. ●



*Parents of children whose lives have been saved as a result of animal research present thank you letters to Dr. Antonia Novello, U.S. Surgeon General, who accepts on behalf of all scientists who devote their lives to the betterment of human health.*



*Another message of thanks presented.*