

Communique

January/February 1995

SOT Will Induct Elion & Lieber as Honorary Members

The Society of Toxicology is pleased to announce that **Gertrude Elion** and **Charles Lieber** have been elected as Honorary members of the Society. The formal induction ceremony will occur at the at 1995 Annual Meeting of the Society of Toxicology.

Ms. Gertrude Elion is renowned for her achievements in the areas of structural analogs of purines and pyrimidines and chemical immunosup-

pression. Her work was appropriately recognized by award of the Nobel Prize in Medicine in 1988.

Ms. Elion, a member of the National Academy of Sciences, is the recipient of numerous honors and awards. In addition to the Nobel Prize in Medicine, she has received: The Garvan Medal from the American Chemical Society; The President's Award from Hunter College; The Distinguished North Carolina Chemist

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U.S. EPA Student Fellowships Available

The U.S. Environmental Protection Agency (EPA) has announced that in 1995 it expects to award approximately 100 new multi-year fellowships for study leading to the masters or doctoral degree; the program provides up to \$34,000 per year. Applications and additional information may be obtained from:

Virginia E. Broadway
 Attn: Graduate Fellowships
 Office of Exploratory Research (8703)
 Room 3102, NEV
 401 M Street, S.W.
 Washington, DC 20496
 Fax No. 202-260-0211

Deadline for receipt of applications is February 13, 1995.

1995 SOT Award Winners

The awards banquet has been transformed into a less formal awards reception. There will be no additional charge to attend. (See President's Message on page 2).

The Society of Toxicology honors the following 1995 Award Recipients:

Award	Recipient
Achievement	Lucio G. Costa
Arnold J. Lehman	Emil A. Pfitzer
Education	William Carlton
Public Communications	Philip Abelson
Merit	Robert A. Scala
Zeneca Travelling Award Lectureships	David L. Eaton
and	Hanspeter R. Witschi

Board of Publications Best Paper Awards

Fundamental and Applied Toxicology J.L. Larson, D.C. Wolf, and B.E. Butterworth, *Induced Cytotoxicity and Cell Proliferation in Hepatocarcinogenicity of Chloroform in Female B6C3F1 Mice: Comparison of Administration by Gavage in Corn Oil vs. Ad Libitum in Drinking Water*, (1994), Vol. 22, pp 90-102.

..... M.I. Luster, C. Portier, D.G. Pait, G.J. Rosenthal, D.R. Germolec, E. Corsini, B.L. Blaylock, P. Pollock, Y. Kouchi, W. Criag, K.L. White, A.E. Munson and C.E. Comment, *Risk Assessment in Immunotoxicology II. Relationship Between Immune and Host Resistance Tests*, (1993), Vol. 21, pp 71-82.

Toxicology and Applied Pharmacology M.F. Denny, M.F. Hare, W.D. Atchison, *Methylmercury Alters Intra-synaptosomal Concentrations of Endogenous Polyvalent Cation*, (1993), Vol. 122, pp 222-232.

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Meryl H. Karol, Ph.D.
1994-95 President of the
Society of Toxicology

PRESIDENT'S MESSAGE

It has been said that nothing endures but change (Heraclitus). This is my last Presidential Message and I find myself looking back at the past year, trying to characterize the year for the Society. I believe it has been a year of change, and of progress.

Discussions of the Board of Publications have resulted in several changes. Starting this year, the Board of Publications, **Edward Bresnick**, **Jack Dean**, **Henry d'Heck**, **David Lawrence**, **Mahin Maines**, **Michael Waalkes**, myself, **Glenn Sipes** (Council liaison), and **Bernard Schwetz** (Chair) will honor the best paper published during the past year in each of the Society's Journals. See page one of the Communiqué for the names of the 1995 awardees.

In the previous issue of the Communiqué, **Valerian Kagan**, a new SOT member, questioned why we have not published the abstracts of Annual Meeting papers as a special issue of one of our Journals. Dr. Kagan's suggestion had such merit that the Board of Publications acted immediately. This year, not only will the abstracts be established as a separate issue of *Fundamental and Applied Toxicology*, but the abstracts will also be available on CD-ROM. Additionally, beginning this year, the Program will be available on diskette. This convenient format will allow you to search the Program and organize your attendance at uniquely selected sessions. Don't hesitate to suggest other changes for the Society. We're listening!

Additional changes will be apparent at the Annual Meeting. Traditionally, the Society has conducted an Award's Banquet. This social event has provided an opportunity to highlight accomplishments of colleagues and to offer congratulations. You have suggested that the event is too formal and doesn't offer ample opportunity for socializing. In recent years, the event has not attracted many attendees. This year, I am delighted to announce the inception of an Award's Reception. It is an informal social event, without charge, and will be held Wednesday evening. Don't miss this opportunity to congratulate award winners, and to socialize with colleagues and with new acquaintances. We hope the new format will be recognized as a congenial atmosphere encouraging social interactions and networking.

I look forward with enthusiasm to the opportunity to host receptions at the Annual Meeting for international members, for retired members, and for previous student award winners. Look for the particulars of these receptions in the Program and in your registration packet.

The Society has enacted many other changes during 1994. For the first time, we published a position paper; to oppose the "ban on chlorine." We have also improved societal communications and have established an editor (**Jay Goodman**) for the Communiqué. We acted to oppose a counterproductive budget cut from the Department of Defense for scientific research. We established a new specialty section, "In Vitro Toxicology." We have begun an evaluation of our Journals and subscription policies. We are revising our membership procedures (under the leadership of **Sidney Green**). Guided by **Judith MacGregor**, we have established a rigorous investment policy to assure long-term financial stability of the Society. Most importantly, we have implemented a long-range strategic plan for the Society. The plan, which was developed under the presidency of **John Emerson**, has guided our activities and decisions for the past two years. Council has recognized the need for reaffirming these long range goals and is planning a review in 1995. Member input is important! Don't hesitate to contact a Councilor with your thoughts and recommendations.

Being President of the Society has been the single greatest honor of my life. You have entrusted me with the leadership of our great and vibrant organization. I am proud of our accomplishments and feel confident that the Society will continue to grow, evolve, and change under the gifted leadership of my able successor, **Jack Dean**.

Sincerely,

Meryl H. Karol, Ph.D.
President
MHK@VMS.CIS.PITT.EDU

FUTURE SOT ANNUAL MEETINGS

- 1995: March 5-9
Baltimore,
Maryland
- 1996: March 10-14
Anaheim,
California
- 1997: March 9-13
Cincinnati,
Ohio

Introduction to Internet Mail

By: James P. Kehrer, Division of Pharmacology and Toxicology, College of Pharmacy, The University of Texas at Austin, Austin, TX 78712

In the previous edition of the *Communiqué*, an appeal was made to members for E-mail addresses. Some of you, like myself, may have responded via E-mail and discovered that the address for SOT Headquarters (73162.506@Compu-Serve) does not work through standard Internet mail without the addition of ".com". Because of the difficulty in inter-service E-mail, and because I believe quite strongly in the value of E-mail, SOT agreed to publish this brief description of what the Internet mail service is all about. It is hoped that some understanding of what this system can do will lead more of you to utilize this valuable (and at least to university-based scientists, free) service.

Most you probably realize that the Internet we know today has evolved (and continues to rapidly evolve) from a project funded by the government to connect computers at various locations. This interconnection has expanded at an extraordinary rate in recent years. It seems likely that soon, virtually every computer in the world that is connected to any sort of network will be able to talk to any other. Although important, and probably the most widely used feature of the Internet, E-mail is only one of thousands of examples of the types of services one can access through this interconnection. Because the Internet is, in reality, simply a linking of computers containing various types of in-

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Two Awards for Best Paper

Last year, the Awards Committee recommended that separate awards be given for superior publications: one to recognize the best paper in *Toxicology and Applied Pharmacology* and one to recognize the best paper in *Fundamental and Applied Pharmacology*. Council approved this recommendation and asked the Board of Publications (BOP) to name the awards and select the awardees.

This year, the BOP determined that there were two possible courses of action: one was to retain a Frank R. Blood Award and create a second award named after a member. The second option was to create two new awards. After much discussion, the BOP recommended (and Council approved), the creation of two new awards. The Awards are called "The Board of Publications Award for the Best Paper in *Toxicology and Applied Pharmacology*" and "The Board of Publications Award for the Best Paper in *Fundamental and Applied Toxicology*."

Congratulations to the 1995 award winners, who are listed on the front page of this *Communiqué*.

Council Listens: Adopts Interim Policy on Dues

SOT Council has voted to suspend until further notice enforcement of the recently enacted By-laws amendment requiring payment of member's dues by December 15 as a prerequisite for receipt of the Society's journals during the following year.

This amendment, questioned by members, is of concern to Council. Council is determined to review the matter, including the impact on arrangements with Academic Press, publisher of TAP and printer of FAAT.

Continued on page 12

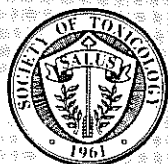
Past Minority Participants Sought

Each year the SOT conducts an Educational Program for Minority Students that is funded by a grant from the National Institutes of Health and other benefactors. In order to document the merits of this special program, it is important that the Society assess the impact the program has had on the participants.

A survey has been sent to previous years' participants of the SOT Minority Program in order to obtain information on the individual's background and present status, how the participant became aware of the pro-

gram, and whether the program influenced the participants' educational selections and future career choices. The survey was sent to the last known address--often an undergraduate college address.

If you were a previous participant and have not received a survey, or, if you know the address of a previous participant, please contact the SOT Headquarters office. Your assistance is important to the continuation of the Society's program for minority education and recruitment.



The *Society of Toxicology Communiqué* is published 5 times annually in Reston, Virginia for members of the Society of Toxicology.

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Jay I. Goodman, Ph.D.

Deadlines for Upcoming Issues:

April 3, 1995

June 3, 1995

August 3, 1995

SOT
34th Annual Meeting
Baltimore Convention Center



***Plenary Speaker is
 Donald Coffey,***

***"The Chaos Theory in Toxicology:
 Making Sense of the Madness"***

The 1995 SOT Plenary speaker will be Donald Coffey, a ground-breaking cancer researcher and renowned speaker. Dr. Coffey is one of the few triple professors in the history of the Johns Hopkins School of Medicine—he holds appointments in pharmacology, oncology, and urology.

Over the last two decades, Dr. Coffey and his students have led the way in exploring the mechanisms that replicate DNA. From his research, Dr. Coffey has concluded that much of what the scientific community attributes to randomness, if often very deliberate. Though sometimes so complex that the human mind has difficulty in understanding, patterns do exist. Dr. Coffey's Annual Meeting plenary presentation will be "The Chaos Theory in Toxicology: Making Sense of the Madness."

Dr. Coffey seems to enjoy a universal popularity, particularly with the SOT members who have heard him speak. His speeches take you from point A to point B, with a maximum of country-boy, interesting digressions along the way. He favors visual analogy and relies on unorthodox props such as slinkies and windup toys. He uses the goodwill he generates to bring together scientific minds from different disciplines to attack common problems.

SOT Thanks Sponsors!

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

To date, sponsors include:

- Academic Press
- Ani Lytics, Inc.
- Charles River Laboratories
- Dyets Inc.
- Eastman Kodak Co.
- Eli Lilly and Company
- EPL, Inc.
- Exxon Biomedical Sciences, Inc.
- Hazleton Alumni
- Hazleton Laboratories
- ILSI
- R.W. Johnson Pharmaceutical Research Institute
- National Institutes of Health
- Pharmaco LSR
- The Procter & Gamble Co.
- Rhone Poulenc
- Sanofi Winthrop, Inc.
- Sigma Tau

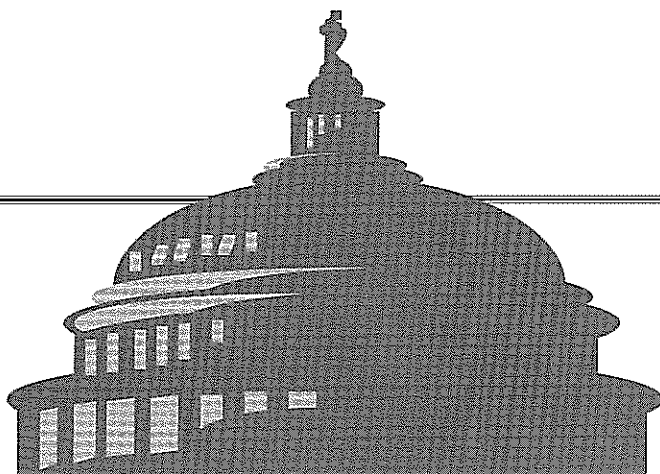
**Andrew Wyllie to
 Present the First
 Annual MRC Basic
 Science Lecture**

The first annual Medical Research Council (MRC) Basic Science Lecture will be presented by Professor Andrew Wyllie. Dr. Wyllie will speak on "Genotoxicity and Apoptosis: Choices and Commitment in Carcinogenesis." The MRC sponsored lecture on the impact of basic research on the science of toxicology reflects the long tradition of support by the MRC for the basic sciences, as well as support for more strategically directed programs and acknowledges the reliance of toxicology on the achievements of basic scientists from a wide range of disciplines. The MRC was established in 1913 and has been responsible for many major discoveries including the cause of rickets (1916), the influenza virus (1933), the structure of DNA (1953), the use of monoclonal antibodies to diagnose diseases (1975), and the identification of the gene for Huntington's disease (1993).

The MRC supports over 40 individual Units in the UK, some are freestanding although many are integrated into University departments. The MRC Toxicology Unit was formed in 1947 and is now located at the University of Leicester. At Leicester, there is the opportunity to integrate many of the basic biological sciences studied in the Medical School with the more strategic or problem orientated research of the Toxicology Unit. The Unit is pleased to sponsor a plenary lecture at the SOT Annual Meeting to acknowledge the reliance of toxicology on the achievements of basic scientists from a wide range of disciplines.

Forum on Regulatory Issues at Annual Meeting

A series of posters from the ATSDR, EPA, FDA and Cal/EPA will be presented at the "Forum on Regulatory Issues," scheduled for Thursday, March 9 at the SOT Annual Meeting. The posters will describe new directions in the regulatory community. The poster display period will be followed by a roundtable session that will provide further opportunities for informative dialog with the poster authors.



Would You Like to Host Your Congressperson at the Annual Meeting?

The Regulatory Affairs and Legislative Assistance Committee (RALA) is inviting members of Congress and their staff members to attend the SOT Annual Meeting. SOT will provide bus transportation, lunch and a reception on Thursday, March 9, for those accepting the invitation. SOT members are encouraged to extend a personal invitation as well.

If you are interested in hosting a representative from your district, please contact Shawn Lopez at SOT Headquarters.

The Toxicologist Available on CD-ROM

For the first time, the SOT is producing the meeting abstracts on a CD-ROM. This will allow you to do far more with the meeting information than ever before.

- ❖ Search by free text (any word that meets your own search criteria)
- ❖ Search by keyword/topic, author, or affiliation
- ❖ Combine search results (narrow down your search terms even further)
- ❖ Printout only your selection of abstracts
- ❖ Save your own selections to a file

The SOT CD-ROM is not a substitute for the regular abstract book, which each attendee will receive. The CD-ROM is a powerful search platform to enable you to derive even more benefit from the meeting. It is being made available to attendees for a fee of \$30 (a minimum of 500 CD-ROM sales are required for the SOT to be able to offer this program). The CD-ROM will be ready for collection at the meeting. You may order a CD-ROM Toxicologist via your Annual Meeting Registration Form or by calling SOT Headquarters.

Meeting Diskette Search Program

The SOT 1995 Annual Meeting itinerary is now available on diskette. This will allow you to have the meeting schedule on your desktop at your fingertips. The Meeting Diskette Search Program provides the ability to search the abstract titles of papers and posters programmed for presentation at the Annual Meeting. The user can search the Meeting program by key words and phrases, author names, and sessions. By printing your selections, you can create your own personal itinerary for the meeting.

This capability may be used in the comfort of your home or office. We hope use of this search program enhances your overall experience at the 1995 meeting. The cost of the 1995 Annual Meeting diskette is \$7 per diskette. When ordering, use the Annual Meeting Registration form and please indicate the type of diskette you require. Call SOT Headquarters if you have questions.

Write Your Congressperson at the SOT Annual Meeting

Have you ever wanted to write your congressional representative, but didn't know your district, or perhaps you weren't sure of the committees and subcommittees on which your congressperson served? The Regulatory Affairs and Legislative Assistance Committee (RALA) has planned a "Write your Congressperson Booth" at the SOT Annual Meeting.

RALA Committee members will staff the booth and will have sample letters, as well as copies of the SOT position statements, to help attendees draft letters. Computer terminals--with Congressional directories--will be available for attendees to address, write, and mail their letters to Congress.

Make certain you schedule your time at the Annual Meeting to include writing to your Congressperson. Letter writers will receive a surprise gift from SOT.

Pictures Needed

The Annual SOT Banquet and Awards Presentation is no more. In its place, as described in the January/February President's Message on page 2, is a Final Night Reception. In order to make this event as entertaining as possible, a continuous running slide show featuring pictures of members is scheduled. We are asking members to send pictures of other members (or slides if you have them), authorized or unauthorized, to SOT Headquarters.

Be sure to look for your picture at the Final Night Reception.

Need Grant Money?

The SOT Education Committee will sponsor a forum for researchers, both new and established, seeking financial support for research and training. The forum is titled "Forum on Grantsmanship & Source For Research Support" and is scheduled for Tuesday, March 7, from 1:30 p.m. to 4:30pm. It will include presentations on grantsmanship that will discuss helpful suggestions for writing successful applications, as well as information on assistance to applicants that the NIH staff can provide, and program areas in toxicology that can be supported by this federal agency.

Chairperson: Janice E. Chambers,
Mississippi State University,
Mississippi State, MS

WELCOMING COMMENTS, M.A.
Medinsky, CIIT, Research
Triangle Park, NC, Chairperson,
SOT Education Committee

INTRODUCTION, J.E. Chambers,
Mississippi State University,
Mississippi State, MS, Chairper-
son of Forum, and former member
of Toxicology Study Section

**GRANTSMANSHIP: PEER
REVIEWER'S PERSPECTIVE,**
G. Wenger, University of Arkan-
sas for Medical Sciences, Little
Rock, AR, and former member of
Toxicology Study Section

**NATIONAL INSTITUTES OF
HEALTH; SCIENTIFIC RE-
VIEW ADMINISTRATOR'S
PERSPECTIVE, F. Marozzi,**
Scientific Review Administrator,
NIH Toxicology Study Section,
Bethesda, MD

**NATIONAL INSTITUTES OF
HEALTH; PROGRAM
ADMINISTRATOR'S PERSPEC-
TIVE, A. Kirshner,** Program
Administrator, NIEHS, Research
Triangle Park, NC

**NATIONAL INSTITUTES OF
HEALTH: INSTITUTE'S
PERSPECTIVE, J. Robinson,**
Chief, Organ and Systems
Toxicology Branch, Research
Triangle Park, NC

PANEL DISCUSSION

Satellite Workshop on the Use of Aquatic Animal Models

The Aquatic Pathobiology Center, University of Maryland School of Medicine, will offer a "hands-on" workshop on the "Use of Aquatic Animal Models" as a satellite meeting to the SOT Annual Meeting. The workshop will be offered on Friday, March 10th from 9:00 a.m. to noon. Topics to be discussed include design of aquatic laboratories, unique aspects of fish husbandry, and physical and postmortem examinations of fish. Participants will tour the Aquatic Pathobiology Center and anesthetize and conduct physical postmortem examinations on their specimens. Faculty include Renate Reimschuessel, VMD, PhD and Andrew Kane, MS PhD.

The workshop will be limited to the first 20 participants registered. A nonrefundable fee of \$120 is required to hold a place in the workshop, and must be received prior to the close of business on February 24th. The fee includes informal discussion with complimentary box lunch following the workshop. Participants wishing to register after February 24th (or at the meeting) may do so on a space-available basis for a fee of \$150.

Make checks payable to UMAB Fund, and send to Dr. A.S. Kane, Aquatic Pathobiology Center, UMAB, Department of Pathology, 10 South Pine Street, Baltimore, MD 21201-1192. Please include, on a separate paper, your name, affiliation, title, address, telephone and fax numbers, and email address (please type). If you have any questions, please contact the Aquatic Pathobiology Center by email: akane@umabnet.ab.umd.edu or telephone: (410) 706-7230.

Sponsors Needed for Free Final Night Reception

The format of the SOT Annual Banquet and Awards Presentation has changed. Immediately following the Burroughs Wellcome Toxicology Scholar Award Lecture, Wednesday, March 8 at 5:00 p.m., the SOT 1995 Awardees will be recognized. This will be followed by a reception, free to all attendees, featuring international food stations. Preliminary registration forms indicate that nearly all registrants plan to attend this social event.

The Final Night Reception has been made possible by its contributing sponsors; **Academic Press, Pharmaco LRS, and Charles Rivers Laboratories.**

Sponsorships for this exciting new event are still available. If your organization would like to be a sponsor, please contact **Clarissa Russell** at SOT Headquarters. Sponsors will be recognized at the reception, as well as in the SOT Communiqué.

Retired Members Register at a Reduced Rate for Annual Meeting

It is well known that the SOT retired members lend history and continuity to the Society. To encourage retired members to come and share their knowledge at the SOT Annual Meeting, the retired member registration fee has been reduced to \$35. If you are retired, please consider joining your colleagues at the meeting. (As an added incentive for retired members to attend, **Meryl Karol** has scheduled a Retired Members Reception in the Presidential Suite. Look for further details in your registration packet at the Annual Meeting.)

Educators' Forum

Is there toxicology information available on the Internet? What types of computer programs can help me explain principles of toxicology in the classroom or to my community? The upcoming Educators' Forum, to be held Monday, March 6, at the Society of Toxicology Annual Meeting will address a number of these questions by focusing on the development and application of computers in teaching toxicology. In recent years, a variety of computer programs have been developed that permit toxicologists and members of the public to access information concerning thousands of chemicals and their adverse effects. In addition, programs have also been developed to assist in explaining basic principles of biology, physiology and toxicology as a classroom supplement or through personal continuing education. The upcoming Educators' Forum will introduce members of the Society to a number of computer products that are currently under development or have been developed in recent years, and will describe how computers can be used as a resource for teaching toxicology.

Ten individuals are scheduled to participate in the Forum. Six presentations will focus on the use of computer resources for community outreach or classroom use: **David Eaton**, University of Washington in "Risky Business: Living in a Chemical World" and **Amanda Lane-Cline**, EOHHSI in "Educational Software for Environmental Decision Making" will describe their use of computer-based multimedia teaching at the high school level. **David Eastmond**, University of California, Riverside in "Use of Computer-based Resources as Classroom Supplements for Teaching Toxicology" and **Craig Marcus**, Purdue Univer-

sity in "Computer-assisted Instructional Materials for Pharmacology and Toxicology in the Classroom and Laboratory" will describe software and its application to university instruction at the undergraduate and graduate levels. Programs targeting the same audience will be the focus of presentations by **Charles Branch**, Auburn University in "Interactive Multimedia Computer Programs as Alternatives to Traditional Experiments in Education" and **John Young**, Hampshire Research Institute in "Use of Risk(*) Assistant Personal Computer Software to Teach Toxicological Risk Assessment and Exposure Assessment."

Four presentations will describe the use of data bases to access toxicological information about specific chemicals. **Michael Kamrin**, Michigan State University in "TOXNET-A Unique Approach to Environmental Toxicology Outreach," **Jesse Wagstaff**, Food and Drug Administration in "Poisonous Plant Bibliographic File in Internet" will describe how to access various types of information on the Internet. **Edward Calabrese**, University of Massachusetts, Amherst in "Retrieval Data Base on Single Exposure Carcinogens" and **Jeanne Goshorn**, National Library of Medicine will describe the use of various databases to retrieve specific information on toxic and carcinogenic chemicals.

In addition, facilities will be available after the presentations to allow those attending the Meeting to get "hands-on" experience using selected products. This year's Educators' Forum promises to be a valuable session which could potentially benefit all individuals attending the SOT Annual Meeting.

Guidelines for the Organization of Annual Meeting Scientific Sessions

Introduction

The Society of Toxicology encourages members to organize scientific sessions, on timely topics, at its Annual Meeting. Proposals may be submitted by any member, committee, 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.

Proposals

Proposals should present reasons the session is desirable and provide some details. The following points should be addressed:

- 1) Justification of need for a session in the particular field.
The number of sessions 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 session 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 member 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 session.
- 6) Financial requirements, if any. (SOT will provide financial assistance to non-SOT member speakers, on a case by case basis.)
- 7) Specialty Section endorsement or Specialty Section financial sponsorship.
- 8) Publication plans, if any.

Types of Sessions

Symposia--

Subject Matter:

- ◆ "Cutting edge" science, new areas for toxicologists; new concepts or approaches, new data.

Total Presentation Time:

- ◆ Three hours or less.

Speakers and Presentations:

- ◆ Chairperson and 4-5 speakers.
- ◆ Approximately 40 minutes per speaker.
- ◆ Summary of symposium by last speaker.

Comments:

Format designed for presentation of new information. Short period for questions and discussion suggested following each presentation. Symposium should be concluded with a brief summary and short period for general discussion.

Workshops --

Subject Matter:

- ◆ Topic requiring intensive study and discussion.

Total Presentation Time:

- ◆ Three hours or less.

Speakers and Presentations:

- ◆ One-to-five speakers.
- ◆ Informal, interactive presentations.
- ◆ Emphasis on discussion.

Comments:

Format design for conveying detailed "how-to" information.

Roundtables --

Subject Matter:

- ◆ Controversial subjects.

Total Presentation Time:

- ◆ Approximately 1 hour.

Speakers and Presentation:

- ◆ Moderator and 2-4 speakers.
- ◆ Moderator presents overview.
- ◆ Each speaker makes a 3-5 minute statement (Moderator coordinates the comment).
- ◆ Balance of time for questions and discussion.

Comments:

Format design for discussion of controversial information between speakers, with audience participation encouraged.

Approval of Sessions

After receipt of a proposal, it will be presented to the Program Committee in May. The results of committee action will be transmitted promptly to the initiator(s) by the chair of the Program Committee. If the session is approved, the chair of the Program Committee will then provide further instructions concerning follow-up correspondence with speakers, completion of the session overview and speaker abstracts, finalization of the program, date of the session, and publication procedures if it is to be published.

Publication

All SOT-sponsored sessions come under the general guidelines for publication of SOT-related activities, i.e., the editors of the official journals, FAAT and TAP, have first right of refusal regarding publications from the SOT sessions.

Guidelines for the Organization of a CE Course

Introduction

The Society of Toxicology presents Continuing Education Courses accepted at its Annual Meeting. The emphasis is on quality presentations of generally accepted, state-of-the-art knowledge in toxicology. These courses meet the requirements of the membership for information on new developments in toxicology and related disciplines, as well as provide education applicable to the requirements of certifying and licensing boards.

Courses run for three and one-half hours and a detailed syllabus of course content is provided. Each course is classified as basic or advanced. A brief overview (10-15 minutes) by the course's chairperson precedes presentations by the instructors (usually four). The emphasis is on teaching excellence. Clarity of presentation, attention to detail and organization are priorities.

Typically, six courses are offered in the morning and another six in the afternoon. The Continued Education Committee is responsible for screening courses proposed by the membership and identifying additional priority areas of instruction. In the latter instances, the Committee solicits assistance from qualified professionals who contact potential instructors. The Committee recommends a slate of courses to Council for consideration.

Organizing Continuing Education Courses

Courses may be proposed by any member, Committee, Specialty Section or Chapter of SOT. Proposals intended for consideration for the following year's meeting must be submitted to the Continuing Education Committee by **April 15**. A cover letter should state why the proposed course is a priority and summarize major aspects of course content. The proposal should contain the following items:

1. Proposed title. Note whether this should be a basic or advanced course.
2. Chairperson(s) (must be SOT members).
3. Names, affiliations, SOT membership status, presentation titles and presentation summaries (two to four sentences) for proposed instructors. Please remember that the emphasis is on selecting excellent teachers.
4. Specify the year the course is to be offered. Please be aware that rigid time-lines are imposed for presentation of the course syllabus. Drafts for each presentation are due in early November and final copy is required in early December. Take this into account when planning a proposal and contacting potential instructors.

5. Financial requirements, if any. SOT will provide travel assistance for up to one non-SOT member per course; all SOT members are responsible for their own travel expenses. A \$400 consideration is provided to each instructor to offset the cost of slides and other material for preparation.

Approval of a Continuing Education Course

The chairperson of the Continuing Education Committee presents proposals to committee members for consideration in May. Both the proposal's quality and the need for balance in course offerings are major considerations in the evaluation process. A matrix of past course offerings and the responses of attendees to these courses is used. There is a concerted effort to provide courses in each year's offerings that update fundamentals, integrate advancing technologies, and provide new perspectives. Meeting the needs of a diverse audience with evolving careers is paramount. The committee forwards a slate of proposed courses to Council in May. The recommendation of the Committee and the decision of Council are forwarded to initiators of proposals soon thereafter.

Course Organizers

A member of the Continuing Education Committee serves as a courses organizer for each course. She/he is the immediate link between SOT and chairperson for each course. While the chairperson selects and organizes instructors, review and revision of the course syllabus is a coordinated activity of the chairperson and course organizer. The course organizer will assist in communications between SOT and the chairperson and assure logistical support for the course by SOT staff before and during presentations at the Annual Meeting.



SOT Annual Meeting

SOT Animals In Research Booth at Annual Meeting

The Animals in Research committee deals with issues relating to the use of animals in toxicological research and communicates the ethical and practical issues concerning animal use to both members of the SOT and the community at large. The toxicological community is committed to the most humane and ethical treatment of animals, as well as to using the fewest animals possible. We are also committed to developing and uti-

lizing alternative models. In recent years, the lay public, as well as the scientific community, has been intensely exposed to the perspective of animal rights groups with regard to animal research. It is imperative that the issues be conveyed in a balance and rational way to everyone. Just how do we do this?

The Animals in Research Committee will have a booth at the 1995 Annual Meeting in Baltimore. At this

booth, we will have educational materials, including videotapes, brochures, and sources of information on the importance and ethics of animal research, use of alternatives models, as well as information on how to communicate these issues to the community at-large, including elementary and secondary school students and science teachers.

The Impact of Animal Research On Veterinary Medicine and Animal Health

The use of animals in biological research is commonly justified as being vital for the advancement of human health and safety. Advances in diagnostic and surgical techniques, vaccines, and therapeutics, which hallmark medical progress, are directly linked to animal research. In addition, toxicological investigations using animals have made important contributions to environmental health and consumer product safety.

A fact that is often overlooked is that many advances in human medicine are directly transferable to the practice of modern veterinary medicine. Indeed over 80 medicines such as anti-inflammatory drugs, anti-convulsants, antibiotics and anesthetics, developed for human use, are now used for the treatment of pets, farm

animals, and wildlife. Modern diagnostic techniques such as ultrasound, magnetic resonance imaging and CAT scans are transforming modern veterinary medicine. Surgical advances such as microsurgery, laser surgery and joint replacements, as well as bone and skin grafting are now being used by veterinarians to prolong life and ease suffering.

Another area where animal research has benefited animal health is the development of vaccines for rabies, distemper, feline leukemia, influenza, encephalomyelitis, fowl cholera, fowl typhoid and anthrax. Advances in nutrition science have resulted in the supplementation of cat food with taurine to prevent cardiomyopathy associated with the deficiency of this amino acid. Further-

more, advances in *in vitro* fertilization, sperm banking, and artificial insemination are being employed to promote the survival of threatened or endangered species. Lastly, environmental improvements, which derive from toxicological studies with animals, benefit wildlife as well as humans.

The Foundation for Biomedical Research produces a brochure entitled "Animal Research for Animal Health". Copies can be obtained by writing to:

Foundation for Biomedical Research
818 Connecticut Ave.
Third Floor
Washington, DC 20006

Code of Ethics Reminder

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

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

Michigan Regional Chapter

Drs. Lloyd Dethloff and Lori Dostal of Parke-Davis Pharmaceutical Research hosted a joint meeting of the Michigan Regional Chapter of the Society of Toxicology (MISOT) and the Midwest Teratology Association (MTA) at the Parke-Davis research facility in Ann Arbor on October 21, 1994. The all-day symposium, held under the general theme of Environmental Estrogens, was attended by over 160 scientists representing the pharmaceutical and chemical industries and academic and government institutions. The keynote address, "Estrogens in the Environment: Molecular Mechanisms and Global Implications," was given by NIEHS

Scientific Director **Dr. J. Mclachlan**. This presentation was followed by **Dr. Rita Loch-Caruso**, Associate Professor from the University of Michigan, who spoke on "Uterine Muscle as a Target for Environmental Estrogens." It was a notable day for Dr. Loch-Caruso, as she was also installed as MISOT's President-elect for the coming year. **Professor Richard Peterson** of the University of Wisconsin kicked off the afternoon session with a presentation of some of his recent work on "Adverse Effects of Dioxin on Male Reproductive Development and Function," and **Dr. Michael Gilbertson**, Secretary of Great Lakes Research Managers, from the Interna-

tional Joint Commission. This presentation rounded out the symposium with his presentation on "Great Lakes Teratology: Problems of Causality." Appropriately on National Biomedical Research Day (October 21), attendees were also introduced to the Michigan Society for Medical Research by its President, **Dr. William Beierwaltes** of Henry Ford Hospital, Detroit, who spoke on "Building Public Understanding for Biomedical Research and Testing."

This was the first joint meeting of the MISOT and MTA and was widely considered as an enormous success.

SOT Inducts Gertrude Elion & Charles Lieber as Honorary Members

Continued from page 1

Award; The Judd Award from the Memorial Sloan-Kettering Institute; The Cain Award from the American Association for Cancer Research; The Distinguished Women of North Carolina Award; The Spirit of Achievement Award from the Albert Einstein College of Medicine; The State of North Carolina Award in Science; The National Medal of Science; and The Medal of Honor from the American Cancer Society, to name but a few of the many awards.

Dr. Lieber's accomplishments comprise the elucidation of the respec-

tive roles of nutritional and toxic factors in the pathogenesis of alcoholic liver disease. He has authored over 800 scientific publications and six books. The last available survey of the "Most-Cited Scientists for the period 1973-1984" by the Institute for Scientific Information, revealed that Dr. Lieber is the most frequently cited scientist (in the field of pathology) worldwide; four of his papers have been selected as Current Contents' "Citation Classics," one as a "hot" paper and one as a "Nutrition Classics" of Nutrition Reviews.

Dr. Lieber, a Fellow of the American Association for the Advancement of Science, has received more than 30 awards and honors including: The Distinguished Achievement Award from the AGA; the W.S. Middleton Award from the Department of Veterans Affairs; the American College of Nutrition Award; and the Award for Scientific achievement from the American Society of Addictive Medicine.

The Society is honored to have these two exceptional scientists join its membership.

Call for Research Proposals

The Johns Hopkins Center for Alternatives to Animal Testing (CAAT) is soliciting proposals for the 1996-97 grant period. These research proposals should provide fundamental knowledge needed to develop alternative methods to the use of whole animals for the safety/hazard evaluation, risk assessment and efficacy of commercial products.

The center 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 systems, applicable to toxicity/efficacy evaluation. At the present time, CAAT does not fund projects relating to carcinogenicity or mutagenicity.

To apply, submit a one-page abstract using the CAAT Pre-proposal Abstract Form (96-97) to Ann Kerr, CAAT, 111 Marketplace, Suite 840, Baltimore MD 21202-6709, Tel. (410) 223-1693, Fax (410) 223-1603. DEADLINE FOR SUBMISSION OF Pre-proposal ABSTRACTS IS MARCH 6, 1995.

SPECIALTY SECTION NEWS

DEADLINE EXTENSION

The Regulatory and Safety Evaluation Specialty Section has extended the 1995 Annual Meeting Student Travel Award deadline until **February 15, 1995**. For further information please contact Joyce Mordenti at (415) 225-2771 Fax: (415) 225-6327.

Council Listens: Adopts Interim Policy on Dues

Continued from page 3

In the meantime, Council has adopted an interim policy: Members whose dues are paid by December 31 will receive both journals throughout the following year. Members whose dues are paid by June 30 would receive monthly post-payment issues as well as back issues for that year. Members paying after June 30th would receive issues only for the

second half of the current subscription year. For all other purposes, dues will continue to be payable by December 15.

Council is responsive to member concerns and is interested in your suggestions. A final policy on dues will require a change in the By-laws.

Introduction to Internet Mail

Continued from page 3

formation that someone wants to make available to others, the proliferation of computers providing this information has been incredible. It is possible for almost anyone to set up a "server" and make information available to others. For example, we are just now completing a series of "pages" on the Internet that describe our faculty research interests and graduate program.

One result of the expansion of the Internet has been the creation of rapidly evolving efforts to organize the information and, even more importantly, to develop browser programs to help individuals find what is out there. Freeware (costless) programs such as NCSA Mosaic and Netscape serve this purpose admirably, and provide both an easy to use and relatively standard interface for users. Unix, DOS (with Windows), and Macintosh operating systems are supported.

In terms of E-mail, the proliferation of interconnected computers has resulted in a rather confusing mail address system. However, by understanding the components of the address it becomes easier to both remember them, and to correct errors when they occur. For example, the CompuServe E-mail address for SOT Headquarters works only within CompuServe unless modified. CompuServe is one of several large commercial on-line services that provide information, entertainment, E-mail, etc. to subscribers. Other such services include Prodigy, America Online, Genie and E-World. With the growth of the Internet, the providers of these services have realized that it is important to become connected to this international system. As part of this interface, it is necessary to modify the internal E-mail addresses so that they work universally. This modification has taken the form of suffixes on E-mail addresses that designate the type of organization that is being addressed. The E-mail address for SOT through the Internet is: "73162.506@CompuServe.com." The "73162.506" is CompuServe's designation for the individual account holder, in this case, SOT. Other providers will usually use more descriptively useful individual names. The "@CompuServe" designates a specific computer located within the Internet. The "com" refers to commercial. Other common suffixes are: "gov" for government, "org" for private, Nonprofit organizations, "edu" for educational institutions, and two letters designating other countries. For example, nl is for The Netherlands, ch for Switzerland, and uk for Great Britain.

As an example of a typical academic institution, let's

go through each portion of my E-mail address (jkehrer@uts.cc.utexas.edu) to see what it means. The portion of the address before @ (for "at") is the individual's name or local identifier. Most people use some part of their name, while others may have an account number. Those identifiers that are confusing can usually be modified to be a name by contacting whomever is in charge of the mail system. The items after the @, separated by periods, identify the specific computer on the network that must be reached. For me, "uts" is a Unix computer on our campus in the computation center ("cc") at the University of Texas (utexas) an educational institution (edu).

The order in which these different portions of the address are presented is critical, but unfortunately, not always standardized. For example, I recently had need to contact someone in England. The E-mail address on their letterhead had portions of their address in a different order than would work from the USA, although it worked fine for them locally. When this happens, a message from the other end to you (if it works) will provide the correct address in the header to the message (which usually contains routing information). There is also a simple "reply" command in most E-mail software allowing you to ignore the specifics of the address.

Once you are connected to Internet mail, the entire world is literally at your fingertips. Freeware programs such as Eudora are available to allow your personal computer to search in the background for mail messages and for you to easily send them. In fact, entire manuscripts, pictures, graphs, data, software, etc. can be sent around the world in a matter of seconds; and it is usually free to individual users. You can also get put on various "E-mailing lists." Although this might become worse than junk mail, in some instances it can be very useful. For example, I receive NIH announcements, RFPs, RFAs, etc. automatically each week. As the American Editor of Toxicology Letters, I have also found this system to be very useful in notifying authors of manuscripts that are received, particularly in countries where mail may not be very reliable.

I hope that this brief background information is useful. Feel free to call (or better yet E-mail) me with any questions. I am far from an expert in this field, but have found E-mail to be increasingly useful and try to provide you with answers.

(Editor's Note: SOT is going on the Internet. Look for our new address in the next edition of the Communiqué.)

PLACEMENT SERVICES

Research Scientist - Toxicology

Working in our GLP toxicology laboratory, you will take responsibility for protocol design of toxicology and safety pharmacology studies, study monitoring, data evaluation, and report/document preparation, including documents for FDA submissions. You will act as the toxicology liaison on ALZA product development teams for controlled delivery systems, organize and monitor contract toxicology studies, and provide research support for *in vivo* and *in vitro* studies for ALZA.

A Ph.D. in toxicology or other related biological science plus four to eight years of experience is required. A working knowledge of biochemistry, gastrointestinal physiology, animal models, and cell culture is desirable. We are looking for a team player with strong leadership qualities, as well as excellent scientific, communication and management skills.

Please send your resume to: ALZA Corporation, Attn: Human Resources, 950 Page Mill Road, P.O. Box 10950, Palo Alto, CA, 94303-0802. Telephone: (415) 494-5319, Fax (415) 494-5151, (415) 494-5003 TDD.

Toxicologist

Exxon Biomedical Sciences, Inc., has an opening for a qualified toxicologist in our consulting toxicology group. The successful candidate should have an M.S. or Ph.D. in Toxicology and 3-5 years of consulting experience (preferred but not essential). The position requires knowledge in the design of toxicology studies and application of these studies to human hazard evaluation and risk assessment. Consulting activity includes interactions with governmental/regulatory agencies, development of literature reviews, design and monitoring of toxicology research programs, as well as involvement in generalized risk assessment programs. The position requires extensive consultation with Exxon affiliates worldwide. Client interactions are an important aspect of our work, and thus, we are seeking an individual who possesses excellent oral and written communication skills. The position also offers the opportunity to work with an experienced team of toxicologists and with interdisciplinary teams of environmental and occupational health specialists.

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

Terrestrial Toxicologist

Roy F. Weston, Inc. a leader in the field of environmental engineering for over 35 years, has an immediate opening for a Terrestrial Toxicologist. The perfect candidate will have a background in environmental toxicology with a

strong understanding of biochemistry including metabolic, carcinogenic, and mutagenic effects. A strong knowledge of structure-activity relationships, and other interactions with xenobiotics is required. Experience with pathology including general necropsy and histopathological procedures and morphological effects on cells and organs is useful. A Ph.D. degree, preferably in animal physiology or toxicology, or an M.S. degree in biological sciences with 2-3 years of experience is required. Strong computer, statistical, logistical and communication skills desired. Must be willing to travel.

WESTON offers competitive salaries, excellent benefits and an exceptional working environment. Join our team. Apply today by sending resume with salary requirements to: ROY F. WESTON, INC., Human Resources Department, GSA Raritan Depot, 2890 Woodbridge Ave., Building 209 Annex, Edison, NJ 08837-3679. NO TELEPHONE CALLS PLEASE.

Toxicologist

International Flavors & Fragrances, Inc. (IFF) is seeking an individual to provide regulatory and safety support for the Flavor and Fragrance Divisions. The candidate must have a Ph.D. in toxicology, chemistry, or a related field with 2 to 5 years' of industry experience. This individual must have demonstrated leadership abilities and have, or be able to develop, a current understanding of international chemical, fragrance, food and flavor regulations and related safety issues. Responsibilities include determining the impact of new or developing health and safety legislations, managing relevant databases, and responding to and providing support for the commercial sector in safety and regulatory matters. Familiarity of risk assessment procedures, test protocols and interpretation of data is required. Strong consideration will be given to bilingual candidates, preferable in Chinese (Mandarin) or other Asian languages, or Spanish. Strong computer experience is necessary. If interested, please forward resume and salary requirements to Employment Manager, International Flavors & Fragrances, 600 Highway 36, Hazlet, New Jersey 07730. IFF is an equal opportunity employer. M/F/D/V.

Bench International

Bench International is an executive consulting team servicing the pharmaceutical, biotechnology and chemical industries. We specialize in the placement of professionals in the following areas:

- ◆ Toxicology
- ◆ Pathology
- ◆ Drug Metabolism/Pharmacokinetics
- ◆ Product Safety and Toxicology
- ◆ Environmental Sciences and Toxicology
- ◆ Biotechnology/Investigative Toxicology
- ◆ Pharmacology
- ◆ Quality Assurance

For further information, please contact Karen Fulmer at Bench International, 116 N. Robertson Boulevard, Suite 503, Los Angeles, CA 90048, Telephone: (310) 854-9900. Bench International will also be present at the 1995 SOT Annual Meeting.

Dr. O.G. Fitzhugh

O. Grant Fitzhugh, 93, a toxicologist who retired in 1971 as deputy director of toxicology at the Food and Drug Administration, died of cardiopulmonary arrest December 6 at a hospital in Richmond. A resident of the Washington D.C., area for 48 years, he moved to Richmond from Kensington in 1987.

Dr. Fitzhugh, who specialized in pesticides and food additives, worked at the FDA for 32 years. He was a toxicologist at the Environmental Protection Agency until 1973 and a consultant thereafter.

Dr. Fitzhugh was a native of Hood, VA., and a graduate of the University of Virginia, where he also received master's degrees in education and physiology and pharmacology, and a doctorate in physiology and pharmacology.

Early in his career, Dr. Fitzhugh taught science in high schools in Harrisonburg, VA., and in Charlottesville where he was also a teacher-supervisor for science. Before moving to the Washington area, he was an assistant professor of physiology and pharmacology in the school of medicine at the University of Vermont and an associate professor of pharmacology at Vanderbilt University.

During his tenure at the FDA, he was a delegate to the United Nations' joint expert committee on food additives and pesticides, and he chaired several committees of the World Health Organization. He wrote more than 100 scientific publications related to food additives and pesticides.

Dr. Fitzhugh's honors included the Distinguished Service Award of the Department of Health, Education and Welfare for work on toxicology that helped establish rules about pesticide and additive levels in food. He received Superior Service Awards from the federal government and from the Society of Toxicology, which awarded him the Merit Award in 1972. He received a Distinguished Career Award from the EPA.

Dr. Fitzhugh was a fellow of the American Association for the Advancement of Science and a vestryman of Christ Episcopal Church in Kensington. He was a member of the Institute of Food Technologists, the American Society of Pharmacology and Experimental Therapeutics, the Society of Experimental Biology and Medicine, the Society of Toxicology, the Sons of the Confederate Veterans, the Sons of the American Revolution, the Virginia Genealogical Society and the Civil War Roundtable.

His wife of 65 years, Mary Cornelia Boaz Fitzhugh, died in October.

Survivors include four children, Mary Eleanor Fitzhugh Hitzelberger of Fond Du Lac, WI, Ann Fitzhugh Stubbs of Savannah, GA, Dr. William Garth Fitzhugh of Richmond, VA, and Elizabeth Fitzhugh Hayes of Boise, ID; 14 grandchildren; and four great-granddaughters.

Professor Rene Truhaut

We announce the death in Paris on May 10, 1994 of one of the most distinguished pioneers in Toxicology, Prof. Rene Truhaut, most recently, until his retirement, Professor of Toxicology, Faculty of Pharmacy and Head, Department of Toxicology at the University of Paris. Professor Truhaut served as a key participant in many international organizations such as WHO, IUPAC, EEC and alike. He was a pioneer in studies in occupational health, in chemical carcinogenesis, in the toxicology of food components and additives and in environmental toxicology. He was the first to use the word "ecotoxicology" in 1969. He published over 800 papers, communications and lectures. Many of his former students are now professors at major french universities. He was elected a member of the French Academies of Sciences, Medicine, and Pharmacy, of the Royal Academy of Medicine of Belgium, and Doctor Honoris Causa of many universities. The field of international toxicology was enriched by the presence of Rene Truhaut. We lost him when he reached his 85th year.

Dr. Virginia Zaratzian

Dr. Virginia Zaratzian died May 17, 1994 in Delray Beach, Florida where she lived after retiring from approximately 50 years of professional life, 32 years of which she served in the federal government as a pharmacologist and toxicologist.

Virginia received a B.S. and B. of Pharmacy in 1942 and 1946 from the University of Michigan and her Ph.D. in 1956 from Wayne State University. After teaching pharmacy at Northeastern University and serving as a research assistant at the University of Illinois, she joined the Food and Drug Administration at the U.S.P.H.S. Division of Air Pollution from 1961-63, the U.S. Army Environmental Agency from 1963-66, at the USDA Pesticides Regulation Department 1966-68, at the National Institutes of Professional Health from 1968-78. Her last government position was as a toxicologist in the Department of Agriculture, Food Safety and Quality Division from 1978-91, when she retired. In addition, during that period, she served as an adjunct professor at the University of Cincinnati and a visiting professor of pharmacology at the University of Texas Technical College of Medicine in Lubbock.

As a pharmacologist and toxicologist, Dr. Zaratzian was involved with the evaluation and regulation of pesticides, food additives, drugs and other chemicals. She has published reviews on adverse drug reactions and interactions of psychotropic drugs. She served as a consultant to many groups and was especially committed to offshore issues of ocean incineration in later years.

Dr. Zaratzian has served the fields of toxicology and pharmacology in a truly dedicated and enthusiastic way. She was a charter member of the Society of Toxicology and a long-standing member of ASPET. Even in retirement, she volunteered as a pharmacist to the Zacchaeus Free Clinic in Washington, to the Public Citizen Health Research Group, and to the EPA.

To the very end she was a true advocate of "doing good for the public good." Indeed, she was proud of her heritage and of the ability to serve as she did throughout her career.

IN MEMORIAM

Dr. Clarence James Terhaar

Dr. Terhaar, known as C.J. or Jim, received his undergraduate education at Gonzaga University and the University of Idaho, a Masters degree at the University of Michigan, and a Doctoral Degree at Kansas State University (parasitology) in 1957. Dr. Terhaar will be remembered for his honesty in all professional activities, his lifelong interest in advancing the field of toxicology, his lectures on the value of understanding statistics and the harm done by misapplication of statistics.

C.J. began his career as an assistant professor of entomology at Kansas State University. In 1958, he joined the Laboratory of Industrial Medicine at Eastman Kodak Company as a toxicologist, and at a later point in his career managed the Toxicological Sciences Laboratory at Kodak from which he retired in 1986. While at Kodak, C.J. held an appointment as Adjunct Associate Professor of Toxicology in the School of Medicine and Dentistry, University of Rochester.

C.J. belonged to a number of professional societies which include: the Society of Toxicology (Program Committee 1964-65, 1975-76; Technical Committee 1968-71, and Membership Committee 1978-81), the American Board of Toxicology and the American Industrial Hygiene Association. He served as Associate Editor of Drug and Chemical Toxicology, Editorial Board member of The Journal of Toxicology and Environmental Health, and Editorial Advisory Board member for The Journal of Applied Toxicology. He was certified in toxicology by the American Board of Toxicology and registered with the American Registry of Professional Entomologists.

C.J. had a long-term interest in improving test methods in toxicology. He was as much interested in finding potential therapeutic uses for new chemicals as he was in exploring their toxicity. His work in this area included development of methemoglobin-forming agents as antidotes for nitrile poisoning and cyanoacrylates as surgical glues.

Perhaps the aspect of toxicology that C.J. enjoyed the most was mentoring young toxicologists. It is his colleagues perception that C.J. wanted people to start out right in their chosen field and he was always willing to do his part so they might succeed.

Dr. Terhaar is survived by his children, Susan, Kevin, Mark, and Laura (Ms. William Ribas), two grandchildren, and all of those toxicologists who had the good fortune to know him and receive his counsel.



REMEMBER ICT-VII
INTERNATIONAL CONGRESS
OF TOXICOLOGY
MEETING
JULY 4-6, 1995
Phone (913) 345-1990
Fax (913) 345-0893

UPCOMING CONFERENCES

- **Commercializing Oligonucleotide-Based Therapeutics**, February 9-10, 1995, Hotel Del Coronado, Coronado, CA, IBM 1995 USA Conferences Inc., 225 Turnpike Rd, Southborough, MA 01772-1749, (508) 481-6400, Fax: (508) 481-7911.
- **5th International Inhalation Symposium**, February 20 - 24, 1995, Hannover Medical School, Germany, Dr. H.C. U. Mohr, Hannover Medical School, Institute of Experimental Pathology, Konstanty-Gutschow-Str. 8, D-30625 Hannover, Germany, (+49) 511-532-4522/23, Fax: (+49) 511-5350-155.
- **Chemical Risk Assessment for Environmental Compliance and Dose Reconstruction**, February 27-March 3, 1995, Kiawah Island, South Carolina, Course coordination office (312) 988-7667, Fax: (312) 649-9383.
- **SIGMA XI Forum 1995**, March 2-3, 1995, Sheraton Imperial Hotel, Research Triangle Park, North Carolina, Dee Windley, P.O. Box 13975 Research Triangle Park, NC 27709, (800) 243-6534 Fax: (919) 549-0090.
- **Society of Toxicology Annual Meeting**, March 5-9, 1995, Baltimore Convention Center, SOT Headquarters, (703) 438-3115, Fax: (703) 438-3113.
- **Introduction Course on Food Toxicology**, March 13-17, 1995, Dr. Almeida, Nutrition Department, Oporto University, 351-2-4102064, Fax: 351-2-4104143.
- **British Toxicology Society Scientific Meetings: Altered Gene Expression in Toxicity**, March 27 - 29, 1995, York; Dr. J. K. Chipman, Meetings Secretary, School of Biochemistry, University of Birmingham, Edgbaston, Birmingham B15 2TT, England.
- **Mid-America Toxicology Course**, April 23-28, 1995, Kansas City, Missouri, Curtis D. Klaassen, Ph.D., Professor of Pharmacology & Toxicology, University of Kansas Medical Center, Kansas City, KS 66160-7417, (913) 588-7714, Fax: (913) 588-7501.
- **National Association for Biomedical Research Conference**, April 30- May 2, 1995, Washington, DC, NABR, (202) 857-0540, Fax: (202) 659-1902.
- **3rd International Course on the Safety Assessment of Pharmaceuticals**, May 7-12, 1995, Tarrytown Hilton, Janet Marino at the American Health Foundation, (914) 789-7140, Fax: (914) 592-6317.
- **Indoor Air Quality Immunity and Health**, June 22-23, 1995, McKimmon Center, North Carolina State Campus, Mary E. Mills, Inst. Comp. and Env. Tox., Cornell University, Ithaca, New York, (607) 255-8008, Fax: (607) 255-8047.
- **International Symposium, Evaluation of Butadiene & Isoprene Health Risks**, June 27-29, 1995, Inn at Semi-Ah-Moo, Blaine, WA, John Ludwig, Symposium Coordinator, 2077 South Gessner, Ste 133, Houston, TX 77063, (713) 783-7511, Fax: (713) 783-7253.
- **ICT-VII, International Toxicology Meeting**, July 2-6, 1995, ICT-VII Management Staff, (913) 345-1990, Fax: (913) 345-0893.

PUBLICATIONS OF INTEREST

- **Drug & Chemical Blood Level Data 1994** (\$10 + postage, laminated wall chart 25" x 31"), Dr. Charles L. Winek, Allegheny County Department of Laboratories, 10 County Office Building, Pittsburgh, PA 15219, (412) 355-4425.
- **Immunotoxicology and Immunopharmacology, Second Edition, Target Organ Toxicology Services**, Editors: Jack H. Dean, Ph.D., Michael I. Luster, Ph.D., Albert E. Munson, Ph.D., Ian Kimber, Ph.D., Raven Press, New York.

For Registration Forms Call the SOT Fax on Demand Line (703) 715-2797

1995 SOT Annual Meeting Program Overview

SUNDAY, MARCH 5	MONDAY, MARCH 6	TUESDAY, MARCH 7	WEDNESDAY, MARCH 8	THURSDAY, MARCH 9	SPECIAL EVENTS SPONSORED BY THE SOCIETY OF TOXICOLOGY
CONTINUING EDUCATION COURSES 8:30 a.m. - 12:00 noon 1. Basic Molecular Methods for the Analysis of Gene Regulation and Expression (repeated as course #7 in the afternoon) 2. New Endpoints in Developmental and Reproductive Regulatory Studies: Methods for Success 3. Cytokines and Growth Factors in Toxicity 4. <i>In Vitro</i> Methods for Product Development and Safety Assessment 5. Cell Transformation and Chemical Carcinogenesis 6. Basic Applications in Risk Assessment	SYMPOSIUM 8:30 a.m. The Diet-Induced Alteration of Gene Expression: Is Carnitine a Key Toxicological Target? 1:30 p.m. Biologically-Based, Quantitative Risk Assessment of Neurotoxicants Second Messengers: Their Role in Immunity ROUNDTABLE 12:00 noon Protecting the Food Supply from Environmental Contaminants: Scientific and Economic Considerations PLATFORM SESSIONS 8:30 a.m. Metabolism of Drugs and Chemicals 1:30 p.m. Toxicology of Fibrous and Nontuberculous Parasites POSTER DISCUSSION SESSIONS 8:30 a.m. Dosemetry and Toxicology of the Upper Respiratory Tract Hypersensitivity 1:30 p.m. New Advances in Physiologically-Based Pharmacokinetic Models Toxicant Induction of Stress Proteins POSTER SESSIONS 8:30 a.m. Neurotoxicity: General Neurotoxicity: Sensory Systems Oxidative Injury/Lipid Peroxidation I Risk Assessment I Polycyclic Aromatic Hydrocarbons Mixtures 1:30 p.m. Molecular Methods and Models Cytochrome P450 TCDD I Safety Evaluation of Pharmaceuticals Genotoxicity Solvents 5:30 a.m. and Implementation of Biotech-ology Product Safety Assessment by the Federal Government 1:30 p.m. From Bench to Toxicologist: Answering the Tough Questions about Animal Research	SYMPOSIUM 8:30 a.m. Naturally Occurring Substances in Foods: A Balance of Toxic and Protective Properties Selective Protein Covalent Binding and Target Organ Toxicity 1:30 p.m. Mortality and Morbidity from Acute Increases in Urban Particulate Molecular Markers in the Evaluation of Chemopreventive Agents ROUNDTABLE 12:00 noon Is Ingested Inorganic Arsenic a Threshold Carcinogen? PLATFORM SESSIONS 8:30 a.m. Human Studies and Cancer: Exposure and Risk Assessment 1:30 p.m. Apoptosis POSTER DISCUSSION SESSIONS 8:30 a.m. Metallotoxin TCDD - Ah Receptor 1:30 p.m. Bioavailability of Metals Cytokines in Inflammatory and Immunotoxic Responses POSTER SESSIONS 8:30 a.m. Inhalation Toxicology I Immunotoxicology: Models and Mechanisms Methods in Toxicity Assessment Modulation of Specific Cytochrome P450 Isozymes <i>In Vitro</i> Systems Cardiovascular System 1:30 p.m. Risk Assessment II Neurotoxicity: <i>In Vitro</i> /Neurochemistry Reactive Intermediate/Covalent Binding Toxicology and Developmental Toxicity Environmental Toxicology WORKSHOPS 8:30 a.m. and Implementation of Biotech-ology Product Safety Assessment by the Federal Government 1:30 p.m. From Bench to Toxicologist: Answering the Tough Questions about Animal Research	PLENARY LECTURE 8:30 a.m. "The Chaos Theory in Toxicology: Making Sense of the Madness", Dr. Donald Coffey SYMPOSIUM 9:30 a.m. Intersecting Toxicology: Molecular Basis of Differential Response Mechanisms of Inflammatory Liver Injury: Adhesion Molecules and Cytotoxicity of Neutrophils 1:30 p.m. Compartmentation of Glutathione: Implications for the Study of Toxicity and Disease Water Chlorination: Essential Process or Cancer Hazard? PLATFORM SESSIONS 9:30 a.m. Mechanisms of Immunotoxicity 1:30 p.m. Food Safety POSTER DISCUSSION SESSIONS 9:30 a.m. Statistical and Dose Response Models in Risk Assessment Safety Evaluation of Biopharmaceuticals 1:30 p.m. Cancer Chemoprevention Hepatotoxicity: Potentiation and Protection POSTER SESSIONS 9:30 a.m. Inhalation Toxicology II Toxicokinetics/Pharmacokinetics Halogenated Hydrocarbons Drug Disposition Carcinogenesis Neurotoxicity: Metabolism and Neurotoxicity: Peripheral Nervous System/Axonal Degeneration 1:30 p.m. Hematopoietic System Immunotoxicity: Hazard Identification and Proliferative Events in Toxicity TCDD II Perinatal Development Neurotoxicity: Behavior/Development Male and Female Reproduction WORKSHOPS 9:30 a.m. Lead Toxicity as an Urban Public Health Issue: Baltimore as a Model for Treatment and Prevention 1:30 p.m. The Maximum Tolerated Dose (MTD) for Inhalation Bioassays: Toxicity vs. Overload	SYMPOSIUM 8:30 a.m. Cell Cycle Controls and Carcinogenesis Endocrine Modulation of Reproduction 1:30 p.m. Interactions Between Immune and Non-immune Cells in Immunotoxicology Gap/Junctional Communication for Drug Discovery and Development SOT ISSUES SESSIONS 12:00 noon Dioxin - Do We Know What We Need To Know? PLATFORM SESSIONS 8:30 a.m. TCDD 1:30 p.m. Natural Products POSTER DISCUSSION SESSIONS 8:30 a.m. Respiratory Tract Defense Mechanisms 1:30 p.m. Reproductive and Developmental Effects of Endocrine Disruptors POSTER SESSIONS 8:30 a.m. Bioreformation Physiological-Based Pharmacokinetic Models Gap/Junctional Intercellular Communication Oxidative Injury/Lipid Peroxidation II Hepatotoxicity: <i>In Vitro</i> Investigation 1:30 p.m. Mechanisms of Renal Toxicity Glutathione and Glutathione Conjugate - Mediated Toxicity Hematotoxicity Skin WORKSHOP 1:30 p.m. Techniques for Quantifying Uncertainty in Risk Assessment	FRIDAY Satellite Meeting: CAAT SATURDAY Satellite Meeting: CAAT Satellite Meeting: "The Use of "Tissue Slices" in <i>Vitro</i> Models of Toxicity & Bioreformation 4:00 p.m. Registration opens SUNDAY 9:00 a.m. Minority Student Tour 2:00 p.m. Educational Program for Minority Students 5:00 p.m. Placement Service Seminar - Hyatt 5:30 p.m. Welcome Reception MONDAY 9:30 a.m. Poster Sessions for Visiting Students 12:00 noon Graduate Student Luncheon 12:00 noon SOLEUROTOX Debate 1:30 p.m. Educators' Forum 5:00 p.m. Specialty Section Meetings: <i>In Vitro</i> Toxicology, Inhalation, Molecular Biology, Risk Assessment, Veterinary 6:30 p.m. Specialty Section Meetings: Carcinogenesis, Metals, Regulatory and Safety Evaluation, Reproductive and Developmental TUESDAY 12:00 noon MIC Lecture 1:30 p.m. Forum on Grantmanship and Sources for Research Support 4:30 p.m. Annual Business Meeting 6:30 p.m. Specialty Section Meetings: Food Safety, Immunotoxicology, Mechanisms, Neurotoxicology WEDNESDAY 4:30 p.m. Burroughs Wellcome Toxicology Scholar Award Lecture: Mahin D. Maines 5:30 p.m. SOT Awards Ceremony 6:15 p.m. Final Night Reception THURSDAY 8:30 a.m. Forum on Regulatory Issues