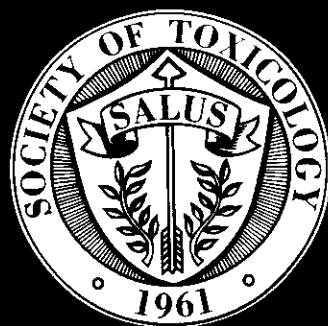


**15th ANNUAL
MEETING**



PROGRAM

**Society
of
Toxicology**

MARCH 14 - 18, 1976

MEETING INFORMATION

REGISTRATION

Registrar

C. J. Terhaar

Pre-registration forms available from Secretary

Gale C. Boxill
Wyeth Labs Inc.
P.O. Box 861
Paoli, Pennsylvania 19301
(215) 644-8000

Registration Desk

Marriott Motor Hotel — 1st Floor Convention Lobby

Sunday, March 14, 1976 1:00 p.m. — 9:00 p.m.
Monday, March 15, 1976 8:00 a.m. — 4:00 p.m.
Tuesday, March 16, 1976 8:30 a.m. — 5:00 p.m.
Wednesday, March 17, 1976 8:30 a.m. — 5:00 p.m.

Pre-Registration Fees

Society of Toxicology Members \$30.00
Nonmembers 40.00
Predoctoral Full-Time Students 5.00

Registration Fees at Meeting

Society of Toxicology Members \$35.00
Nonmembers 45.00
Predoctoral Full-Time Students 10.00

Abstracts of Papers

Distributed without charge to all members of the Society of Toxicology and to all preregistrants in advance of the meeting. Included in the registration fee for those registering at the meeting. Additional copies of the abstracts available at the Registration Desk (First Floor Convention Lobby), price \$2.

Locations (see centerfold map)

Hotel Registration — First Floor Convention Hall
Scientific Sessions — Grand Ball Rooms, North, Center, South, Tara Ballrooms, Suites 1, 2, 3.
Poster Sessions — Hall of Nations (Exhibition Hall)
Press Room — Stone Mountain Room

SCHEDULE OF MEETINGS

Formal Presentations — Grand Ball Rooms (North, Center, South), Tara Ballrooms 1, 2, 3

Morning meetings 8:30 a.m.—11:50 a.m.

Afternoon meetings 1:15 p.m.—4:15 p.m.

Poster Sessions — Hall of Nations (Exhibition Hall)

Monday, March 15-17 8:45 a.m.—10:15 a.m.

10:30 a.m.—12:00 noon

1:30 p.m.—3:00 p.m.

3:15 p.m.—4:45 p.m.

Thursday, March 18 8:45 a.m.—10:15 a.m.

Symposia

Monday, March 15, 9:00 a.m.-12:00 noon — Grand Ballroom (North and Center)

“The Low-Dose Extrapolation Dilemma” (sponsored jointly by Society of Toxicology and Environmental Mutagen Society)

Tuesday, March 16, 1:30 p.m.-4:30 p.m. — Grand Ballroom (North and Center)

“Molecular Basis of Toxic Actions”

Workshop

Wednesday, March 17, 1:00 p.m.-4:45p.m. — Grand Ballroom North
Behavioral Toxicology Workshop

Special Presentations

Wednesday, March 17, at 4:45 — Grand Ballroom South

NAS-NRC “Special Report on the Committee on Toxicology”

Wednesday, March 17, at 4:15 — Tara Ballroom 1, 2, 3

“Toxicology of Agricultural Chemicals Under Conditions of Use”

Annual Business Meeting

Monday, March 15 at 4:40 p.m. — Grand Ballroom (North and Center)

Committee Meetings

Whitehall and Thornwood Rooms

Times will be posted

SOCIAL EVENTS

Banquet

Tuesday, March 16 at 7:30 p.m. — Grand Ballroom
Speaker:

Tickets available at Registration Desk

Mixer and Reception

Monday, March 15, 6:30 p.m.-8:00 p.m. —
Tara Ballroom

Cash Bar

Officers and members of Council will be available to meet and talk with colleagues attending the meeting.

Ladies Hospitality

Mornings at 9:00 for coffee — Plantation Room

Information on events and places of interest will be available at Atlanta Information and Fun Desk.

SPECIAL SERVICES

Placement Service — Room 118

Monday, Tuesday, Wednesday (March 15, 16, 17)

10:00 a.m.-12:00 noon and 2:00 p.m.-4:00 p.m.

Other hours by appointment

John G. Keller, Director

Press Facilities — Stone Mountain Room

Monday, Tuesday, Wednesday (March 15, 16, 17)

8:00 a.m.-5:00 p.m.

Thursday (March 18)

8:00 a.m.-12:00 noon

Members of the Press registered at the meeting may use the area to review meeting materials, prepare news items and meet with speakers.

Atlanta Information and Fun Desk

Furnished by TOURGALS, Inc.

First Floor Convention Lobby

OFFICERS(1975-1976)

Seymour L. Friess *President*
Robert A. Scala *President-elect*
Sheldon D. Murphy *Past President*
Gale C. Boxill *Secretary*
Hans P. Drobeck *Treasurer*

COUNCIL

(Consists of officers and four elected members)

Julius M. Coon (1974-1976)
Harold N. MacFarland (1974-1976)
Perry J. Gehring (1975-1977)
Tom S. Miya (1975-1977)

COMMITTEES 1975-1976

Awards Committee

Sheldon D. Murphy, Chairman
Perry J. Gehring
Tom S. Miya

Board of Publications

Bernard A. Becker (1974-1977), *Chairman*
Gabriel L. Plaa *Managing Editor*
Seymour L. Friess *President*
Herbert H. Cornish (1973-1976)
H. P. K. Agersborg (1975-1978)
Robert A. Scala *Auditor*

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John Doull (1974-1976)
James E. Long (1975-1977)
Carl C. Smith (1975-1977)

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Anne M. Wolven (1974-1976)
Henry Sherman (1975-1977)
Robert J. Weir (1975-1977)

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Robert A. Neal (1974-1977)
George Levinkas (1975-1978)

Nominating Committee

Joseph F. Borzelleca, *Chairman*

James M. Fujimoto

Dorothy B. Hood

Rob S. McCutcheon

Alastair N. Worden

Program Committee

Robert A. Scala, *Chairman*

C. J. Terhaar (*Registrar*)

Herman A. Birnbaum

Gale C. Boxill

S. D. Cohen

Robert T. Drew

Elliott S. Harris

A. Wallace Hayes

K. S. Khera

Robert E. Menzer

Richard S. Waritz

Carrol S. Weil

Technical Committee

Raymond D. Harbison, *Chairman*

Hanspeter R. Witschi, *Co-chairman*

Tibor Balazs

Evelyn G. Burtis

Gerald L. Kennedy

Stanley M. Kurtz

Paul O. Nees

Thomas E. Shellenberger

Robert G. Tardiff

Ralph C. Wands

Francis W. Weir

**Advisory Committee on Acquisition of
Toxicological Data on Pesticides for Food Additives
Unit, World Health Organization**

Harold C. Grice, *Chairman*

Sheldon D. Murphy, *Co-chairman*

Milton Eisler

William Durham

W. J. Hayes

Frank C. Lu

Donald D. McCollister

Emil Poulsen

Committee for Legislative Assistance

Joseph F. Borzelleca, *Chairman*

Victor A. Drill

W. J. Hayes

Paul A. Mattis

Sheldon D. Murphy

Robert L. Roudabush

**Committee on Ethics of Animal and Human
Experimentation in Toxicology**

Paul A. Mattis, *Chairman*

Frank G. Standaert, *Co-chairman*

James W. Newberne

John A. Zapp Jr.

PAST PRESIDENTS—SOCIETY OF TOXICOLOGY

Harold C. Hodge	1961-1962
C. Boyd Shaffer	1962-1963
Paul S. Larson	1963-1964
Harry W. Hays	1964-1965
Frederick Coulston	1965-1966
Verald K. Rowe	1966-1967
John A. Zapp Jr.	1967-1968
Carrol S. Weil	1968-1969
Ted A. Loomis	1969-1970
Robert L. Roudabush	1970-1971
Wayland J. Hayes Jr.	1971-1972
Victor A. Drill	1972-1973
Joseph F. Borzelleca	1973-1974
Sheldon D. Murphy	1974-1975

SOCIETY OF TOXICOLOGY AWARDS

Merit

1966	H. F. Smyth Jr.
1967	A. J. Lehman
1968	R. T. Williams
1969	H. C. Hodge
1970	D. D. Irish
1971	K. P. DuBois
1972	O. G. Fitzhugh
1973	H. E. Stokinger
1974	W. B. Deichmann
1975	F. Coulston

Achievement

1967	G. L. Plaa
1968	A. H. Cooney
1969	S. S. Epstein
1970	S. D. Murphy
1971	Y. Alarie
1972	R. L. Dixon
1973	
1974	M. F. Cranmer
1975	I. C. Munro

Frank R. Blood

1974	Y. Alarie
1975	G. J. Johnstone
	D. J. Ecobichon
	O. Hutzinger

Toxicology Education Award

1975	H. C. Hodge
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APPOINTMENTS

Historian

Harry W. Hays

Placement

John G. Keller

Representative to Drug Research Board, NAS-NRC

Victor A. Drill

Representative to Science Advisory Committee Registry of Tissue Reactions to Drugs, NAS-NRC

Harold M. Peck

Representative to Scientific Advisory Board, National Center for Toxicological Research

Perry J. Gehring

Liaison with European Society of Toxicology

Leon Goldberg

Bo Holmstedt

Liaison with American Industrial Hygiene Association

Gale C. Boxill

Seymour L. Friess

Robert A. Scala

Liaison with Environmental Mutagens Society

John H. Weisburger

Liaison with National Society of Medical Research

Paul J. Garvin

Steering Committee for the First International Congress on Toxicology

Sheldon D. Murphy, *Chairman*

Joseph F. Borzelleca

Hans P. Drobeck

Seymour L. Friess

Robert A. Scala

Ad hoc Panel on Objectives and Program of the In vitro Chemical Carcinogenesis Workshop

Robert J. Weir, *Chairman*

Joseph F. Borzelleca

Cipriano Cueto Jr.

Leon Goldberg

Ad hoc Planning Committee for the Third Conference on Cutaneous Toxicity and Safety (AMA-SOT)

Victor A. Drill, *Chairman*

Seymour L. Friess

Robert A. Scala

Liaison Member, Z-37 Committee

Harold N. MacFarland

FUTURE MEETINGS—SOCIETY OF TOXICOLOGY

<u>Meeting Number</u>	<u>Year</u>	<u>Dates</u>	<u>Location</u>
16	1977	March 27-31	Royal York Toronto, Ontario
17	1978	March 12-16	Hyatt Regency San Francisco, Ca.
18	1979	March 11-15	Marriott New Orleans, La.
19	1980	March	London, England
20	1981	March 8-12	Washington Hilton Washington, D.C.
21	1982	March 7-11	Sheraton Boston Boston, Mass.

March 15, 1976

MONDAY MORNING — GRAND BALLROOM
SOUTH

"Metabolism I"

Chairman: *S. Laham*

Assisted by: *G.P. Carlson and M. Anders*

- 8:30 1. **A Model for In Vivo Sulfite.** A.F. Gunnison and E.D. Palmes, New York University Medical Center, New York, New York.
- 8:50 2. **Comparative and Age Related Pharmacodynamics for Single and Multiple Doses of o-Phenylphenol.** M.A. Rachopsky and F.W. Oehme, Kansas State University, Manhattan, Kansas.
- 9:10 3. **Fate of ¹⁴C-Vinyl Chloride Following Inhalation Exposure in Rats.** P.G. Watanabe, G.R. McGowan, E.O. Madrid and P.J. Gehring, The Dow Chemical Company, Midland, Michigan.
- 9:30 4. **Species Difference of Trinitroglycerin Metabolism In Vivo and In Vitro.** C.C. Lee, R.D. Short and J.R. Hodgson, Pharmacology and Toxicology Research Institute, Kansas City, Missouri.
- 20-MINUTE BREAK
- 10:10 5. **The Pharmacokinetics and Metabolism of Pentachlorophenol in Rats and Monkeys.** W.H. Braun, J.D. Young, M.W. Sauerhoff, G.E. Blau, and P.J. Gehring, The Dow Chemical Company, Midland, Michigan.
- 10:30 6. **The Dose-Dependent Pharmacokinetics Profile of 2(2,4,5-Tri-chlorophenoxypropionic Acid), (Silvex) Following Intra-Venous Administration to Rats.** M.W. Sauerhoff, W.H. Braun and P.J. Gehring, The Dow Chemical Company, Midland, Michigan.
- 10:50 7. **Factors in Appearance and Transport of Phthalate Plasticizer in Stored Blood.** J. Miripol, R. Izzo, J. Lueck and I.J. Stern, Travenol Laboratories Inc., Morton Grove, Illinois.
- 11:10 8. **Effect of subacute administration on Imipramine pharmacokinetics in the rat.** A.R. Beaubien, L.F. Mathieu, H. James and J. Huddleston, Health and Welfare, Canada, Ottawa, Canada. (Sponsor: B.B. Coldwell)
- 11:30 9. **Metabolism and Fate of N-(4-chlorophenyl)-N-(2,6-difluorobenzoyl) urea in chickens and swine.** J.C. Opdycke, R.W. Miller and R.E. Menzer, University of Maryland, College Park, Maryland.

March 15, 1976

**MONDAY MORNING — TARA BALLROOM
SUITES 1, 2, 3,**

"General Toxicity I"

Chairman: R. Fabian

Assisted by: O. Moreno and L.C.K. Wong

- 8:30 10. **An Approach to Safety Factor Estimation for Infant Bathing.** G.M. Benke, (Sponsor: E.V. Buehler), The Procter and Gamble Company, Cincinnati, Ohio.
- 8:50 11. **Intravenous Toxicity Studies with Norpace in Laboratory Animal Species.** K.S. Rao, R. Stejskal, D.M. Ferguson and R.G. McConnell, Searle Laboratories, Chicago, Illinois.
- 9:10 12. **Effects of Age on Common Clinical Parameters of the Beagle.** R.E. Nichols, R.O. Stewart, J.H. Greene, H.P.K. Agersborg, Jr., and G.C. Boxill, Wyeth Laboratories Inc., Paoli, Pennsylvania.
- 9:30 13. **Comparison of Decontamination Procedures for Acute Dermal Phenol Exposures in Swine.** T.G. Pullin, M.N. Pinkerton, R.V. Johnston, D.J. Kilian, Dow Chemical USA, Texas Division, Freeport, Texas.
- 9:50 14. **The Absorption of Ditalowdimethylammonium Quaternary Cationic.** W. Geisler, (Sponsor: E.V. Buehler), Procter and Gamble Company, Cincinnati, Ohio.
- 20-MINUTE BREAK
- 10:30 15. **Applications of Selected Ion Monitoring Mass Spectrometry in Human Pharmacology and Toxicology.** G.H. Draffan and D.S. Davies, Royal Postgraduate Medical School, Ducane Road, London, (Sponsor: D.G. Clark)
- 10:50 16. **The Pathology of Intravenously Administered Poloxamer 108 (Pluronic F-38).** C.D. Port and P.J. Garvin, Travenol Laboratories Inc., Morton Grove, Illinois.
- 11:10 17. **Safety Evaluation of Plasma Solutions of Di-2-ethylhexyl Phthalate Injected Intravenously in Rats.** P.J. Garvin, J.G. Schmidt and R.F. Wallin, Travenol Laboratories Inc., Morton Grove, Illinois.
- 11:30 18. **Potential Biological Hazards of Commercially Available Cleansers for Artificial Dentures.** R.E. Osterberg, G.W. Bierbower, V.M. Seabaugh, W.K. Porter, Jr., C.A. Hoheisel and J. McLaughlin, Jr., US Consumer Product Safety Commission, Washington, D.C.

March 15, 1976

MONDAY MORNING — HALL OF NATIONS
EXHIBITION HALL

"Cardio Vascular Renal Toxicity Poster I"

Chairman: R. Drew

8:45 — 10:15

19. **The Cardiotoxicity of Vasodilating Drugs in Miniature Swine.** E. Herman, T. Balazs, R. Young, F. Earl and S. Krop FDA, Washington, D.C.

20. **Cardiotoxic Effect of Diazepam Solvent in Cats with Digitalis-Induced Ventricular Arrhythmias.** D.S. Pearl and R.A. Gillis, Georgetown University Schools of Medicine and Dentistry, Washington, D.C. (Sponsor: S.L. Schwartz)

21. **Use of Various Solvents to Study the Effects of Diazepam on Cardiac Rhythm.** J.A. Quest, D.S. Pearl, and R.A. Gillis, Georgetown University, Schools of Medicine and Dentistry, Washington, D.C. (Sponsor: S.L. Schwartz)

22. **Characterization of Submaximal Vascular responses to Organic Nitrates.** T.A. Hill and D.R. Brown, University of Maryland at Baltimore, Baltimore, Maryland. (Sponsor: R.T. Louis-Ferdinand)

23. **Characterization of Cytembena-Induced Nephrotoxicity.** W.O. Berndt., University of Mississippi Medical Center, Jackson, Mississippi, (Sponsor: A. Hume)

24. **Enzymes of Renal Origin in Urine as Indicators of Nephrotoxicity.** J.B. Hook and W.E. Stroo., Michigan State University, East Lansing, Michigan, (Sponsor: T.M. Brody)

25. **Comparative Renal Toxicity of Several Cephalosporins.** G.N. Rowland and J.P. Gibson, Merrell National Laboratories, Cincinnati, Ohio.

26. **Incidence of Renal Microconcretions in 3 strains of Laboratory Rats Following Feeding of a Phosphorous Containing Compound.** D.E. Gordon, G.L. Kennedy, Jr., M.L. Keplinger and J.C. Calandra., Industrial Bio-Test Laboratories Inc., Northbrook, Illinois.

27. **The Nephrotoxicity of Cephaloridine, Cefazolin and Mercuric Chloride in the Newborn Rabbit.** J.S. Wold, R.R. Joost and N.V. Owen., Lilly Research Laboratories, Greenfield, Indiana.

March 15, 1976

MONDAY MORNING — HALL OF NATIONS
EXHIBITION HALL

“Agricultural Chemicals I Posters II”

Chairman: P. Wright

10:30 — 12:00

28. Aerosol Inhalation Studies of Five Commercial Pesticides. D.P. Sasmore, D.L. Kay, G.W. Newell and R. Spanggord, Stanford Research Institute, Menlo Park, California.

29. Toxic Potential Evaluation of Soil Pollutant Chemicals. J.C. Dacre, Fort Detrick, Frederick, Maryland, G. Woodard, Woodard Research Corporation, Herndon, Virginia and D. R. Cogley, Walden Research Division of Abcor, Inc., Cambridge, Massachusetts.

30. Dosage Relationships Associated with DDT in Milk. W.J. Hayes, Jr., School of Medicine Vanderbilt University, Nashville, Tennessee.

31. The Relevance of Free Radical Formation in Rat Lung to the Mechanism of Paraquat Toxicity. M.S. Rose, L.L. Smith, and I. Wyatt, Imp. Chemical Industry Ltd., Alderley Park, NR Macclesfield, Cheshire, SK10 4TJ U.K.. (Sponsor: A.A.B. Swan)

32. Studies of the Relative Toxicities of Chlorpyrifos and Chlorpyrifos-methyl in Man. T.B. Griffin, F. Coulston and D.D. McCollister, Holloman AFB, New Mexico, Albany, New York and Dow Chemical Company, Midland, Michigan.

33. Toxicologic Interactions Involving Dichlorvos (DDVP). M. Ehrich, R. Ouellette and S.D. Cohen, University of Connecticut, Storrs, Connecticut.

34. Effect of Paraquat (Methyl Viologen) on Liver function in mice. S.Z. Cagen, A.S. Janoff, and J.E. Gibson, Michigan State University, East Lansing, Michigan.

35. Behavioral Toxicity of Pesticides: Physiological and Behavioral effects of a Carbamate Compound. P.J. Kurtz, US Army Environmental Hygiene Agency, Aberdeen Proving Ground, Maryland.

36. Interaction of Paraquat with pulmonary microsomal enzyme systems. M. R. Montgomery, VA Hospital, University of Minnesota, Minneapolis, Minnesota, (Sponsor: T.E. Gram)

GRAND BALLROOMS NORTH AND CENTER

"Joint Symposium"

Environmental Mutagen Society

and

Society of Toxicology

Monday, March 15, 1976

9:00 — 12:00

The Low-Dose Extrapolation Dilemma

Moderator: John W. Drake, Department of Microbiology,
University of Illinois, Urbana-Champaign, Illinois

The Use of Models for Low-Dose Extrapolation

David W. Gaylor, Chief, Biometry,

National Center for Toxicological

Research, Jefferson, Arkansas

Restraints for Consideration Before Extrapolation

Carrol S. Weil, Senior Fellow, Carnegie-Mellon

Institute of Research, Carnegie-Mellon University,

Pittsburgh, Pennsylvania

MARCH 15, 1976

MONDAY AFTERNOON — GRAND
BALLROOM NORTH AND CENTER
"Mutagenesis"

Chairman: M. Hite

Assisted by: B. Jackson and W. Bagdon

- 1:15 37. **Results of a collaborative cytogenetic study to measure interlaboratory variation.** D.J. Killian, F. Moreland, M. Benge and E. Whorton, Dow Chemical USA, Freeport, Texas; FDA, Washington, D.C., University of Texas Medical Branch, Galveston, Texas.
- 1:35 38. **A Collaborative Dominant Lethal Study with Triethylenemelamine (TEM) in the Rat.** F.M. Moreland, D.J. Killian, K.A. Palmer, J.A. Springer and S. Green, FDA, Division of Toxicology, Washington D.C., and Dow Chemical Company, Freeport, Texas.
- 1:55 39. **The Mutagenic Assay of Some Hair Dye components using the Thymidine Kinase locus of L5178Y mouse lymphoma cells.** K.A. Palmer, A. DeNunzio, and S. Green, Genetic Toxicology Branch, FDA, Washington D.C.
- 2:15 40. **Preliminary investigations of new orally active reference mutagens.** G.W. Newell, T.A. Jorgenson, C.J. Rushbrook, and R. Spanggord, Stanford Research Institute, Menlo Park, California.
- 20-MINUTE BREAK**
- 2:55 41. **In Vivo mutagenesis investigations of ten commercial pesticides.** T.A. Jorgenson, C.J. Rushbrook, and G.W. Newell, Stanford Research Institute, Menlo Park, California.
- 3:15 42. **In Vitro mutagenic studies of twenty pesticides.** V.F. Simmon, D.C. Poole, and G.W. Newell, Stanford Research Institute, Menlo Park, California.
- 3:35 43. **Mutagenicity of Dialkylnitrosamines: Metabolites and Derivatives.** E.J. Olajos and H.H. Cornish, School of Public Health, University of Michigan, Ann Arbor, Michigan.
- 3:55 44. **Evaluation of the Mutagenic Potential of Nitrofurazone in Rats.** D.R. Goodman and M.E. Vore, University of California, San Francisco, California, (Sponsor: H.C. Hodge)
- 4:15 45. **Detection of the mutagenic potential of selected anticancer agents in man.** R.W. Kapp, Jr., and B. Jacobson, Hazleton Laboratories, America, Vienna, Virginia and George Washington University, Washington D.C., (Sponsor: F.E. Reno)
-
- 4:40 **Annual Business Meeting**
Grand Ballroom: North-Center
Members of The Society of Toxicology

March 15, 1976

MONDAY AFTERNOON — GRAND BALLROOM
SOUTH

"Metabolism II"

Chairman: *W. Hayes G. Caplan*
Assisted by: *A. Hume*

- 1:15 46. **Effect of Carbon monoxide on the In Vivo metabolism of Zoxazolamine in normal and polycyclic hydrocarbon induced-rats and mice.** M. Hitchcock and B. Krevsky, John B. Pierce Fdn. Laboratories and Yale University, New Haven, Connecticut.
- 1:35 47. **The influence of inhaled ketone solvent vapors on hepatic microsomal biotransformation activities.** L.B. Hetland, D. Couri, and M.S. Abdel Rahman, Ohio State University, Columbus, Ohio.
- 1:55 48. **Confinement Stress Effects on basal metabolic state and drug metabolism in mice.** W.C. Felsenstein, W.E. Schadel and G.A. Fairchild, US EPA Research Triangle Park, North Carolina, (Sponsor: W.F. Durham)
- 2:15 49. **Studies on the microsomal conversion of dichloromethane to carbon monoxide.** G.K. Hogan, R.G. Smith and H.H. Cornish, University of Michigan, Ann Arbor, Michigan.
- 2:35 50. **The influence of prolonged low-level ingestion of a commercial poly-chlorinated biphenyl mixture (Aroclor 1254) on drug metabolism in the rat.** J.V. Bruckner, W.D. Jiang, V. Stella and C. Chu, University of Texas Medical School Houston Texas and School of Pharmacy, University of Kansas, Lawrence, Kansas.

20-MINUTE BREAK

- 3:15 51. **Effect of various carcinogens (DMBA,ENU) on Testosterone-3 β metabolism and DNA synthesis in the rat prostate.** W. Edwards and J.A. Thomas, West Virginia University Medical Center, Morgantown, West Virginia.
- 3:35 52. **Effect of dietary lipid on Lindane metabolism.** R.W. Chadwick, W.S. Simmons, C.C. Bryden, L.T. Chuang, L.M. Key and C.J. Chadwick, EPA Research Triangle Park, North Carolina, (Sponsor: W.F. Durham)
- 3:55 53. **Tissue distribution, decline, and metabolic studies on decomposition products of ethylenebisdithiocarbamates.** F. Iverson and H. Newsome, Health Protection Branch, Foods Directorate, Tunney's Pasture, Ottawa, Ontario, Canada. (Sponsor: K.S. Khera)
- 4:15 54. **Effect of chronic administration of pyridostigmine on its disposition in rat.** S.M. Somani, B. Woodford and R. Moore, School of Medicine, Southern Illinois University, Springfield, Illinois.

4:40 **Annual Business Meeting
Grand Ballroom: North-Center
Members of The Society of Toxicology**

March 15, 1976

**MONDAY AFTERNOON — TARA BALLROOM
1, 2, 3**

“Industrial And Environmental Toxicity”

Chairman: E. S. Harris

Assisted by: F. Reno

- 1:15 55. **The Effects of Crude air particulate material (CAP) on Hamster respiratory system.** C. Kommineni and D.L. Coffin, EPA Research Triangle Park, North Carolina.
- 1:35 56. **Subacute toxicity of Cyclohexanone in rats, dogs, and monkeys.** M.T. Koeferl, C.D. Port and P.J. Garvin, Baxter/Travenol Laboratories Inc., Morton Grove, Illinois, and J.L. Dorner, University of Illinois School of Veterinary Medicine, Champaign-Urbana, Illinois.
- 1:55 57. **An approach to determining the potential inhalation toxicity of self-pressurized aerosol products.** A.G. Ulsamer, B.V. Mokler and T.R. Henderson, Consumer Product Safety Commission, Washington D.C. and Lovelace Foundation, Albuquerque, New Mexico, (Sponsor: J.F. Reilly)
- 2:15 58. **The acute exposure of rats to the thermal degradation of polyurethane foams.** R.H. Bell, K.L. Stemmer, and W. Barkley, College of Medicine, University of Cincinnati, Cincinnati, Ohio, (Sponsor: T.R. Lewis)
- 2:35 59. **Subacute toxicities of 2,4-dinitrotoluene and 2,6-dinitrotoluene.** H.V. Ellis III, J.V. Dilley and C.C. Lee, Midwest Research Institute, Kansas City, Missouri.
- 20-MINUTE BREAK**
- 3:15 60. **Photochemical-Oxidant Induced Sensory Irritation: Development of an animal model system.** L.E. Kane and Y. Alarie, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania.
- 3:35 61. **Animal absorption study with Triclosan and Triclocarban.** H.S. Chun Hong, N.D. Kurz, T. Wolf and S.J. DeSalva, Colgate-Palmolive, Piscataway, New Jersey, (Sponsor: M.R. Gilman)
- 3:55 62. **Acute toxicity studies of TNT wastewaters.** D.P. Sasmore, R.J. Spangford, D.L. Kay, G.I. Ouchi, and G.W. Newell, Stanford Research Institute, Menlo Park, California.
- 4:15 63. **Acute Static and Subacute Dynamic Toxicity studies conducted with free and combined cyanide in rainbow trout and fathead minnows.** J.W. Goode, G. Rausina, M.L. Keplinger and J.C. Calandra, Industrial BIO-TEST Laboratories Inc., Northbrook, Illinois.

4:40 **Annual Business Meeting
Grand Ballroom
North and Center
Members of The Society of Toxicology**

March 15, 1976

MONDAY AFTERNOON — HALL OF NATIONS
EXHIBITION HALL

"General Chemical Toxicity Poster I"

Chairman: R. Freudenthal

1:00-2:30

64. **Recycling of Naphthalene and Naphthalene Metabolites through monooxygenase systems.** M.G. Horning, C.D. Kary, P.A. Gregory and W.G. Stillwell, Baylor College of Medicine, Houston, Texas.

65. **Phospholipid accumulation in rats produced by Fluoxetine and Chlorphentermine.** J.S. Wold, R.R. Joost, W.J. Griffing, F. Marroquin and P.N. Harris, Lilly Research Laboratories, Greenfield, Indiana. (Sponsor: J.L. Emmerson)

66. **Aryl hydrocarbon hydroxylase activity of twenty-three halogenated dibenzo-p-dioxins.** J.A. Bradlaw, L.H. Garthoff, N.E. Hurley and D. Firestone, FDA, Washington D.C., (Sponsor: S. Green)

67. **Effects of Mirex and Chloroquine on PCB-induced Hepatic Porphyria in the rat.** J.C. Fulfs and R. Abraham, Albany Medical College, Albany, New York.

68. **Comparison of Inhibitions of Esterases and alterations of function by several organophosphorus compounds.** J.H. Wills, G.E. Groblewski, J. Neatia, S. Lj. Vitorovic' and F. Coulston, Albany Medical College, Albany, New York.

69. **Organic fluoride in human plasma: its distribution and partial identification.** D.R. Taves, University of Rochester, Rochester, New York; W.S. Guy, and W.S. Brey Jr., University of Florida, Gainesville, Florida.

70. **Elevated urinary phenol levels in dogs ingesting Salol.** R.J. Kociba, R.V. Kalnins, C.E. Wade, E.L. Garfield, and W.A. Fishbeck, The Dow Chemical Company, Midland, Michigan.

4:40

**Annual Business Meeting — Grand Ballroom
North and Center
Members of The Society of Toxicology**

March 15, 1976

MONDAY AFTERNOON — HALL OF NATIONS
EXHIBITION HALL

"Hepatic Toxicity — Poster II"

Chairman: R. Jaeger

2:45 — 4:15

71. **Ultrastructural and Biochemical effects of ingested arsenic on rat liver mitochondria.** B.A. Fowler and J.S. Woods, National Institute of Environmental Health Science, NIH, Research Triangle Park, North Carolina.

72. **Subacute toxicity of diethanolamine: alteration of mitochondrial function.** S.J. Barbee and R. Hartung, Department of Environmental and Industrial Health, University of Michigan, Ann Arbor, Michigan.

73. **Cyclotrimethylenetrinitramine (RDX)-Induced ultrastructural changes in rat liver and kidney.** J.E. French*, S.L. Bradley*, N.R. Schneider*, M.E. Andersen and L.J. Jenkins Jr., *Armed Forces Radiobiology Research Institute, National Naval Medical Center, Bethesda, Maryland. †Toxicology Division, EBS Department, Naval Medical Research Institute, National Naval Medical Center, Bethesda, Maryland.

74. **A study of the product complex formation of an insect juvenile hormone analog with Hepatic cytochrome P-450.** R.T. Mayer and R.A. Prough, ARS, USDA, College Station, Texas and Biochemical Department of the University of Texas Science Health Center of Dallas, Dallas, Texas, (Sponsor: H.E. Smalley)

75. **Studies on the metabolism of N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide (Captan) by Rat liver drug metabolizing enzyme system.** A. Peeples, and R.R. Dalvi, Toxicology Laboratory, School of Veterinary Medicine, Tuskegee Institute, Tuskegee, Alabama. (Sponsor: R.A. Neal)

76. **In vivo and in vitro effects of a-naphthylisothiocyanate on hepatic microsomal drug metabolism.** B.G. Priestly and R. Drew, University of Adelaide, South Australia, (Sponsor G.L. Plaa)

77. **Parameters of Collagen synthesis in normal and cirrhotic human liver.** G.C. Fuller, University of Rhode Island, Kingston, Rhode Island, S. Fink and J.V. Rodil, VA Hospital, Providence, Rhode Island.

78. **Alteration of liver function after inhalation exposure of p-xylene in rats.** J.M. Patel, C. Harper, and R.T. Drew, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.

79. **Biotransformation of hexane and methyl n-butyl ketone.** D. Couri, M.S. Abdel-Rahman and L.B. Hetland, Ohio State University College of Medicine, Columbus, Ohio.

4:40

Annual Business Meeting — Grand Ballroom
North and Center
Members of The Society of Toxicology

March 16, 1976

**TUESDAY MORNING — GRAND BALLROOM
NORTH**

"Reproduction"

Chairman: J. Kirschman

Assisted by: G. Kennedy and J. Elsea

- 8:30 80. Evaluation of the teratogenic potential of fresh-brewed coffee, caffeine and aspirin in rats. P.E. Palm, E.P. Arnold, P.C. Rachwall, J.C. Leyczek, K.W. Teague and C.J. Kensler, Arthur D. Little, Inc., Cambridge, Massachusetts.
- 8:50 81. Reproductive effects of intrauterine devices in the rat. R. Mankes, G. Estel, R. Abraham, and R. Skalko, Albany Medical College, Albany, New York.
- 9:10 82. Fetotoxicity of Trimethadione and Paramethadione in rats. H.S. Buttar, I. Dupuis and K.S. Khera, Drug Research Laboratories, Health Protection Branch, Health and Welfare Canada, Ottawa, Canada.
- 9:30 83. Effects of nicotine on the release of human placental acetylcholine and its significance to fetal growth. J. Olubadewo and B.V. Rama Sastry, Vanderbilt University School of Medicine, Nashville, Tennessee.

20-MINUTE BREAK

- 10:10 84. Benzpyrene metabolism in induced rat pseudo-pregnant decidua and in placentae of pregnant rats and mice: developmental variations and comparisons. T.H. Lin, F. Sperling, and M.S. Ottley, Howard University Medical School, Washington D.C.
- 10:30 85. Morphine distribution in pregnant mice and their conceptuses following daily dosing. Y.S. Choi, F. Sperling and N.A. On'Gele, Howard University Medical School, Washington D.C.
- 10:50 86. Studies of a placental cholinergic system in rodents. M.W. Stevens, C. Dwivedi and R.D. Harbison, Vanderbilt Medical Center, Nashville, Tennessee.
- 11:10 87. Inter- and intra-litter variation of hexachlorobenzene (HCB) deposition in fetuses. J.E. Andrews and K.D. Courtney, EPA, Research Triangle Park, North Carolina.

March 16, 1976

TUESDAY MORNING — TARA BALLROOM

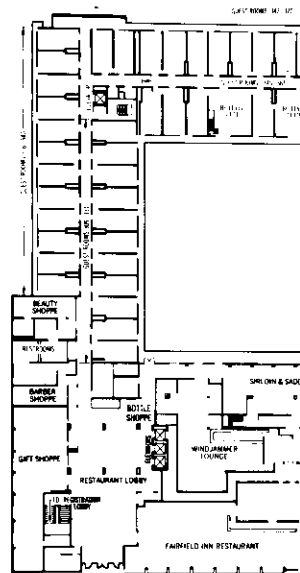
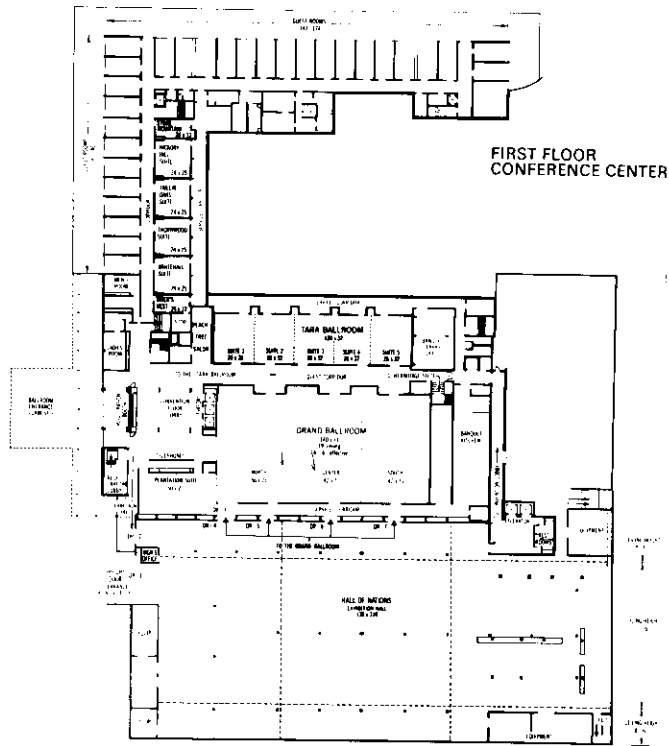
1, 2, 3

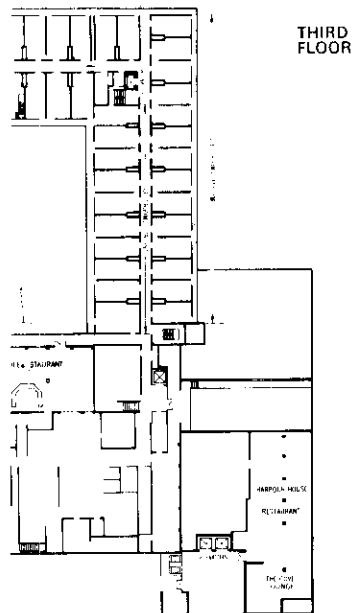
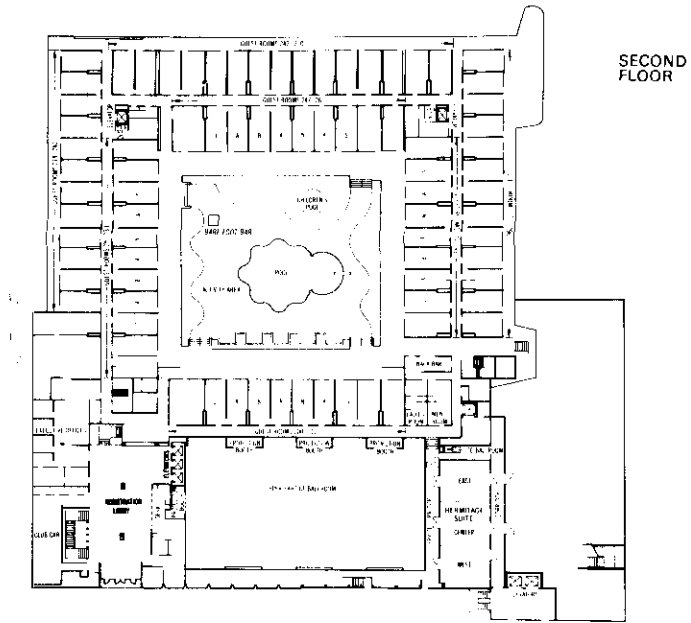
"General Toxicity II"

Chairman: *L. Scheel*

Assisted by: *C. Chesney and R. Kociba*

- 8:30 88. **Research data integrity: a result of an integrated information system.** M.F. Cranmer, S.S. Herrick, L.R. Lawrence, A.J. Konvicka, and D.W. Taylor, National Center for Toxicological Research, Jefferson, Arkansas.
- 8:50 89. **The changing role of information systems in toxicology research.** L.R. Lawrence, and A.J. Konvicka, National Center for Toxicological Research, Jefferson, Arkansas. (Sponsor: M.F. Cranmer)
- 9:10 90. **Computer analysis of electrocardiograms in toxicological studies.** D.M. Ferguson, K.S. Rao, J.E. Mayer, and F.L. Schweingruber, Searle Laboratories, Chicago, Illinois.
- 9:30 91. **The use of mean survival time analysis in assessing toxic interactions.** L.J. Jenkins Jr., R.A. Jones and M.E. Andersen, Naval Medical Research Institute, Bethesda, Maryland.
- 9:50 92. **Conditioned avoidance responses in mice surviving a dominant lethal test and in mice treated neonatally with neuroleptic drugs.** H.C. Yen-Koo, K.W. Petersen and T. Balazs, FDA, Washington D.C.
- 20-MINUTE BREAK
- 10:30 93. **Spontaneous and evoked EEG changes observed in neonatal rats following in-utero exposure to Baygon. A preliminary investigation.** L. Rosenstein and N. Chernoff, US EPA, Research Triangle Park, North Carolina, (Sponsor: W.F. Durham)
- 10:50 94. **Effect of acrylamide intoxication on biochemical components of brain and sciatic nerve in rats.** E.C. Johnson and S.D. Murphy, Harvard School of Public Health, Boston, Massachusetts.
- 11:10 95. **Neurotoxicity of phosphate esters: a comparison of structure-activity relationships.** F.R. Johannsen, P.L. Wright, D. Gordon, R.W. Radue, G.J. Levinskas and P.R. Graham, Monsanto Company, St. Louis, and Industrial BIO-TEST Laboratories, Inc., Northbrook, Illinois.
- 11:30 96. **Neurotoxic esterase: subcellular distribution in hen brain.** R.J. Richardson and M.K. Johnson, University of Michigan School of Public Health, Ann Arbor, Michigan, and MRC Toxicology Unit, Carshalton Surrey, England, (Sponsor: H.H. Cornish)





March 16, 1976

**TUESDAY MORNING — GRAND BALLROOM
SOUTH**

“Applied Pharmacology”

Chairman: T. Lewis

Assisted by: R. Snyder and H. Sherman

- 8:30 97. **Drug induced antagonism of shock potentiated D-amphetamine lethality.** M. Wilson, University of Mississippi, School of Pharmacy, University, Mississippi. (Sponsor: M.W. Davis)
- 8:50 98. **The effect of TOTP pretreatment on the metabolism and toxicity of procaine in mice.** S.D. Cohen and D.J. Orzech, School of Pharmacy, University of Connecticut, Storrs, Connecticut.
- 9:10 99. **Effect of chronic acrylonitrile ingestion on rat adrenal.** S. Szabo, E.S. Reynolds, P. Komanicky, M.T. Moslen and J.C. Melby, Peter Bent, Brigham Hospital and Harvard Medical School, Boston University Medical School, Boston, Massachusetts, (Sponsor: R.J. Jaeger)
- 9:30 100. **Evaluation of antidotes for acrylonitrile poisoning.** M. McLaughlin, N.D. Krivanek, and H.J. Trochimowicz, Haskell Laboratory for Toxicology and Industrial Medicine, E.I. duPont de Nemours and Company, Newark, Delaware.
- 10:10 101. **Changes in whole blood serotonin levels in rats exposed to insecticide aerosols.** P.E. Berteau and W.A. Deen, University of California School of Public Health, and Naval Biomedical Research Laboratory, Naval Supply Center, Oakland, California. (Sponsor: T. Wei)
- 20-MINUTE BREAK**
- 10:50 102. **Synthesis and pharmacological study of some new metal chelators.** J.S. MacDonald, R.D. Harbison, T.H. Pratt, and M.M. Jones, Vanderbilt Medical Center, Nashville, Tennessee.
- 11:10 103. **Clinical effects of cannabidiol and secobarbital** W.S. Dalton, R. Martz, B.E. Roda, L. Lemberger and R. Forney, Indiana University School of Medicine and Lilly Laboratories for Clinical Research, Indianapolis, Indiana.
- 11:30 104. **Hematologic and Blood chemistry values of Rhesus monkeys following Sernylan administration.** R.D. Hemm, N.W. Johnson, and J.J. Pollock, Ayerst Research Laboratories, Chazy, New York.
- 11:50 105. **Laboratory sources of Hexachlorobenzene contamination.** R.S.H. Yang, W.F. Mueller, L. Goldberg and F. Coulston, Albany Medical College, Albany, New York and Institute für Oekologische Chemie, Gesellschaft für Strahlen- und Umwelt-forschung mbH, Munich, Germany.

March 16, 1976

**TUESDAY MORNING — HALL OF NATIONS
EXHIBITION HALL**

“Metabolism and Mycotoxins Poster I”

Chairman: B. Wilson

8:45 — 10:15

106. A preliminary phylogenetic comparison of the liver enzyme systems for reducing Naloxone to 6a- and 6b-Naloxol. S. Roerig, J.M. Fujimoto, M. Nickerson and R.I.H. Wang, Medical College of Wisconsin, Milwaukee, Wisconsin and Milwaukee Public Museum, Milwaukee, Wisconsin.

107. The fate of 2,4-dichlorophenoxyacetic acid (2,4-D) following oral administration to man. M.W. Sauerhoff, W.H. Braun, G.E. Blau and J.E. LeBeau, Dow Chemical Company, Midland, Michigan.

108. The distribution in mice of intravenously administered ¹⁴C-Di-2-ethylhexyl Phthalate (¹⁴C-DEHP) determined by whole-body autoradiography. W.J. Waddell and C. Marlowe, College of Medicine, University of Kentucky, Lexington, Kentucky, (Sponsor: P.J. Garvin)

109. Metabolism of ¹⁴C-Cyclotrimethylenetrinitramine (RDX) in the rat. N.R. Schneider*, S.L. Bradley* and M.E. Andersen†, *Armed Forces Radiobiology Research Institute, National Naval Medical Center, Bethesda, Maryland, †Toxicology Division, EBS Department, Naval Medical Center, Bethesda, Maryland, (Sponsor: J. Siegel)

110. Effects of long-term feeding of alkyl polyethoxylates on the metabolism of an alkyl polyethoxylate. R.B. Drotman and G.D. Dupre, Procter and Gamble Company, Cincinnati, Ohio, and Bio/dynamics Inc., East Millstone, New Jersey.

111. Saturated metabolism as the mechanism for the dose dependent fate of 1,4-Dioxane in rats. J.D. Young, W.H. Braun, J.E. LeBeau and P.J. Gehring, Dow Chemical Company, Midland, Michigan.

112. The metabolism of Toxaphene components. G.A. Pollock and W.W. Kilgore, University of California, Davis, California.

113. Citrinin Mycotoxicosis in the mouse. W.H. Jordan, W.W. Carlton and G.N. Sansing, School of Veterinary Medicine, Purdue University, West Lafayette, Indiana and Commercial Solvents Corporation, Terre Haute, Indiana.

114. Comparative toxicity of Rubratoxin B and its dihydro homolog. M.A. Evans, C. Dwivedi, L.T. Burka and R.D. Harbison, Vanderbilt Medical Center, Nashville, Tennessee.

115. Mycotoxicosis produced by cultural products of an isolate of *Aspergillus Ochraceus*. J.L. Zimmermann, W.W. Carlton and J. Tuite, School of Veterinary Medicine, Purdue University, West Lafayette, Indiana.

March 16, 1976

**TUESDAY MORNING — HALL OF NATIONS
EXHIBITION HALL**

"Mycotoxins and Food Chemicals Poster II"

Chairman: R. Dixon

10:30 — 12:00

116. **Effect of Penitrem A on mouse brain and liver composition.** R.D. Phillips and A.W. Hayes, University of Mississippi Medical Center, Jackson, Mississippi.

117. **Effect of mycotoxins singly or in combination on neonate rats.** S.A. Watson and A.W. Hayes, University of Mississippi Medical Center, Jackson, Mississippi.

118. **Biochemical responses of duckling to dietary Fusarotoxins.** D.S. Sawhney, FDA, Washington D.C., (Sponsor: J.M. Taylor)

119. **Acute and subacute toxicity studies of a new artificial sweetener.** T.A. Jorgenson, G.W. Newell, D.P. Sasmore and C.J. Rushbrook, Stanford Research Institute, Menlo Park, California.

120. **Absorption in vitro of sulfated polysaccharides by biological membranes.** R. Jones, E.P. Pittz, L. Goldberg and F. Coulston, Albany Medical College, Albany New York.

121. **Cecal response to different molecular weights and types of Carrageenan in the guinea pig.** M. Engster and R. Abraham, Albany Medical College, Albany New York.

122. **Comparative testicular toxicity in rats of R-800, a new isochroman anorectic agent, and its d- and l-isomers.** D.R. Saunders, R.A. Nelson, M.T. Case, and L.J. Sibinski, Riker Laboratories Inc., 3M Center Building 218-3, St. Paul Minnesota.

123. **Comparative acute oral toxicity of flavor materials when dosed singly or in combination to the rat.** D.E. Bailey and K. Morgareidge, Food and Drug Research Laboratories Inc., Waverly, New York, and T.X. Collins, US FDA, Washington, D.C.

124. **Comparative acute oral toxicity of 12 food grade gums in the mouse, rat, hamster, and rabbit.** D.E. Bailey and K. Morgareidge, Food and Drug Research Laboratories, Inc., Waverly, New York, and T.X. Collins, US FDA, Washington D.C.

125. **Acute toxicity of Sodium 2-Propylpentanoate (A compound whose toxicity decreases as animal size increases).** D.L. Conine and K.R. Majors, S. Lehrer and B.A. Becker, Abbott Laboratories, North Chicago, Illinois.

126. **Acute and subacute toxicity of Zearalenone in the rat.** D.E. Bailey, G.E. Cox and K. Morgareidge, Food and Drug Research Laboratories, Inc., Waverly, New York and J. Taylor, US FDA, Washington, D.C.

"Symposium"

1:30 — 4:30 PM

**Grand Ballroom — North-Center
Molecular basis of Toxic Action**

March 16, 1976

**TUESDAY AFTERNOON — GRAND BALLROOM
NORTH-CENTER
SOCIETY OF TOXICOLOGY
Symposium on
*“Molecular Basis of Toxic Action”***

- 1:30 **Introductory Remarks** — Robert E. Menzer, Professor of Entomology, University of Maryland, College Park, Maryland.
- 1:40 **Acetylcholinesterase: Biochemical Studies on a Target Enzyme** — Richard D. O'Brien, Director, Division of Biological Sciences, Cornell University, Ithaca, New York.
- 2:30 **Molecular Basis of Aflatoxin Toxicity** — Gerald N. Wogan, Professor of Toxicology, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- 3:20 **Some Biochemical Principles of Metal Toxicology** — Bert L. Vallee, Paul C. Cabot Professor of Biological Chemistry, Harvard Medical School, Boston, Massachusetts.
- 4:10 **General Discussion**
-
- 7:30 **Society of Toxicology Banquet
Grand Ballroom**

March 16, 1976

Tuesday Evening

7:30 P.M.

BANQUET

Grand Ballroom

Menu

Salad with Baby Shrimp

Broiled New York Steak
Maitre D'Hotel

Tomato Duchesse

Green Beans Amandine

Fresh Rolls and Butter

Peach Melba

Coffee

Wine: Courtesy of The Charles River Companies

March 17, 1976

WEDNESDAY MORNING — GRAND BALLROOM
NORTH

"Halogenated Hydrocarbons I"

Chairman: V. Carter

Assisted by: R. Hehir

- 8:30 127. **Difference in 2,4,5-T distribution in fetal mice and guinea pigs.** M. Ebron and K.D. Courtney, EPA, Research Triangle Park, North Carolina.
- 8:50 128. **Renal alkaline phosphatase activity in fetal offspring of maternal mice given 2,4,5-Trichlorophenoxyacetic acid.** B. Highman, T.B. Gaines and H.J. Schumacher, University of Arkansas College of Medicine, Little Rock Arkansas and National Center for Toxicological Research, Jefferson, Arkansas.
- 9:10 129. **Effects of Pentachlorophenol on hepatic drug metabolism and porphyria related to contamination with chlorinated dibenzo-p-dioxins.** J.A. Goldstein, R.E. Linder, P. Hickman and H. Bergman, EPA, Research Triangle Park, North Carolina, (Sponsor: W.F. Durham)
- 9:30 130. **The comparative toxicity of chlorinated dibenzo-p-dioxin isomers in mice and guinea pigs.** E.E. McConnell and J.A. Moore, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.
- 9:50 131. **Tissue distribution of C^{14} Tetrachlorodibenzo-p-dioxin in pregnant and neonatal rats.** J.A. Moore, M.W. Harris, and P.W. Albro, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.
- 20-MINUTE BREAK
- 10:10 132. **Characterization of various parameters of rat hepatic microsomal mixed function oxidase after induction by polybrominated biphenyls.** J.G. Dent, K.J. Netter and J.E. Gibson, Department of Pharmacology, Section on Toxicology, University of Mainz, D-65 Mainz, West Germany.
- 10:30 133. **The distribution and excretion of 3,5,3',5'-tetrachlorobiphenyl in the male rat.** H.B. Matthews and D.B. Tuey, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, (Sponsor: J.R. Fouts)
- 10:50 134. **In vivo metabolism of radioactive 4-Chloro- and 4,4'-dichlorobiphenyl in rats.** L.T. Jao, J.R. Hass and H.B. Matthews, National Institute of Environmental Health Sciences (NIH), Research Triangle Park, North Carolina, (Sponsor: J.R. Fouts)
- 11:10 135. **Uptake and distribution of 4-Chlorobiphenyl by the isolated perfused rat liver.** H.M. Mehendale, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, Jackson, Mississippi, (Sponsor W.M. Davis)

March 17, 1976

WEDNESDAY MORNING — GRAND BALLROOM
SOUTH

"Teratology"

Chairman: B. Schwetz

Assisted by: B. N. Banerjee and D. Sofia

- 8:30 136. **Teratologic evaluation of Omadine MDS when applied dermally to Yorkshire pigs.** J.H. Wedig, G.L. Kennedy Jr., D.H. Jenkins, R. Henderson, M.L. Keplinger, Olin Research Center, New Haven, Connecticut and Industrial BIO-TEST Laboratories, Inc., Northbrook, Illinois.
- 8:50 137. **Skeletal variant assay systems(SVAS) for detection of biological effects of environmental contaminants.** S.L. Beck, US EPA, Research Triangle Park, North Carolina. (Sponsor: W.F. Durham)
- 9:10 138. **Evaluation of the cat for teratogenicity studies.** K.S. Khera, Bureau of Chemical Safety, Food Directorate, National Health and Welfare, Ottawa, Canada.
- 9:30 139. **Alteration of delta-9-tetrahydrocannabinol-induced teratogenesis.** R.D. Harbison and B. Mantilla-Plata, Vanderbilt Medical Center, Nashville, Tennessee and School of Medicine, Universidad de Antioquia, Medellin, Colombia.
- 9:50 140. **Teratology studies on the metabolic inhibitors SKF-525A and piperonyl butoxide in mice and rabbits.** B.A. Schwetz, F.J. Murray and R.E. Staples, Dow Chemical USA, Midland, Michigan, and National Institute of Environmental Health Sciences(RES), Research Triangle Park, North Carolina.
- 10:10 141. **Teratogenic studies utilizing cultured embryonic mouse limb buds.** J.M. Manson and C.C. Smith, Department of Environmental Health, University of Cincinnati, College of Medicine, Cincinnati, Ohio.
- 20-MINUTE BREAK
- 10:50 142. **Enhancement of Acetylsalicylic acid induced teratogenicity by food restriction in rats.** J.R. Beall, Department of Pathology and Toxicology, Schering Corp. Lafayette, New Jersey.
- 11:10 143. **Triamcinolone Acetonide: (1,4-pregnadiene-3,20-dione, 9 α -fluoro-11 β ,21 dihydroxy 16 α ,17 α -(isopropylidenedioxy), Aerosol Inhalation teratology studies in rabbits.** B.S. Brar, B.A. Jackson, C.E. Traitor, D.E. Rodwell, C.R. Boshart and J.F. Noble, Lederle Laboratories, Division of American Cyanamid Company, Pearl River, New York.

Mantilla-Plata

March 17, 1976

**WEDNESDAY MORNING — TARA BALLROOM
SUITES 1, 2, 3**

“Lung and Respiratory Tract”

Chairman: J. D. MacEwen

Assisted by: K. Darmer and E. Kinkead

- 8:30 144. **Sensory irritation caused by the decomposition products of polyvinyl chloride.** C.S. Barrow, Y. Alarie, M.F. Stock, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania.
- 8:50 145. **Evaluation of the irritancy potential of surface active agents. Assessment of activity upon the upper respiratory tract of guinea pigs, mice and rabbits.** H.P. Ciuchta, Toxicology Research Unit, Gillette Medical Evaluation Laboratories, Rockville, Maryland.
- 9:10 146. **The effect of oil mist and SO₂ on respiratory function of the guinea pig.** D.L. Costa and M.O. Amdur, Harvard School of Public Health, Boston, Massachusetts.
- 9:30 147. **Pulmonary aryl hydrocarbon hydroxylase: Tobacco smoke-exposed guinea pigs.** M.H. Bilimoria, J. Johnson, J.C. Hogg and H.P. Witschi, Pathology Institute, McGill University, Montreal, Canada.
- 9:50 148. **Electron microscopy of BHT-induced lung damage.** K.I. Hirai, H.P. Witschi and M.G. Cote, Université de Monreal, Montreal, Quebec, Canada.
- 20-MINUTE BREAK**
- 10:10 149. **The phthalate plasticizer, DI(2-ethylhexyl) phthalate (DEHP), and shock lung in rats.** R.J. Rubin and J.C.F. Chang, The Johns Hopkins University School of Hygiene and Public Health, Baltimore, Maryland.
- 10:30 150. **Effect of Halothane on Serum calcium in rats.** H.H. Borgstedt and R. Kurlan, University of Rochester, Rochester, New York.
- 10:50 151. **Zirconium and Aluminum localization in lung by Morin fluorescence and energy dispersive x-ray analysis.** E. Kaszynski and E.O. Bernstein, Gillette Research Institute, Rockville, Maryland, (Sponsor: R.P. Giovacchini)
- 11:10 152. **Inhalation toxicity of cyclohexene.** S. Laham, Environmental Health Directorate, Health protection Branch, Health and Welfare Canada, Ottawa, KIA 0L2, Canada.

March 17, 1976

WEDNESDAY MORNING — HALL OF NATIONS
EXHIBITION HALL

"Metals I Poster I"

Chairman: B. Fowler

8:45 — 10:15

153. **Tolerance development to Cadmium-induced potentiation of drug action in male rats.** S.A. Roberts, T.S. Miya and R.C. Schnell, School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, Indiana.

154. **Sex-related differences in Cadmium toxicity in rats.** D.J. Hicks, T.S. Miya and R.C. Schnell, School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, Indiana.

155. **Toxic effects of Cadmium-metallothionein in rat.** M.G. Cherian and R.A. Goyer, University of Western Ontario, London, Canada. (Sponsor: J.J. Vostal)

156. **Interactions of Cadmium and Selenium in rat plasma in vivo and in vitro.** T.A. Gasiewicz and J.C. Smith, University of Rochester School of Medicine, Rochester, New York, (Sponsor: T. Fouts)

157. **The effect of Thiocholesterol on the acute lethality of selected heavy metals in the mouse.** J. Burgun, R. Martz, R. Forney L. Steinrauf and R. Blickenstaff, Indiana University School of Medicine, Indianapolis, Indiana.

158. **Subacute effects of Rubidium chloride ingestion in the rat.** C. Chow and H. Cornish, Interdepartmental Toxicology Program, University of Michigan, Ann Arbor, Michigan.

159. **Cadmium-induced alterations in Calcium disposition.** E.M. Yuhas, T.S. Miya, and R.C. Schnell, School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, Indiana.

160. **Regional disposition of radioactive Iron Oxide aerosol in the respiratory tract of laboratory animals.** B.S. Brar, S. Gordon, J. Morrison, C.E. Traitor, and C.R. Boshart, Lederle Laboratories, Division of American Cyanamid Company, Pearl River, New York.

W. H. Anderson

March 17, 1976

**WEDNESDAY MORNING — HALL OF NATIONS
EXHIBITION HALL**

“Metals II Poster II”

Chairman: E. Pfitzer

10:30 — 12:00

161. Effects of chronic lead ingestion on total Acetylcholine content of mouse brain. A.T. Modak, S.T. Weintraub, W.B. Stavinoha, and R.H. Purdy, Division of Toxicology, University of Texas Health Science Center at San Antonio and Southwest Foundation for Research and Education, San Antonio, Texas.

162. Kehoe lead balance data in humans: variability. S.B. Gross, J. Tsay and M. Middendorf, Department of Environmental Health, University of Cincinnati, Cincinnati, Ohio.

163. Neurotoxicity during lead exposure in the rat. L.W. Reiter and M.E. Ash, US EPA, Health Effects Research Laboratory, Research Triangle Park, North Carolina. (Sponsor: J. Doull)

164. Alterations in social behavior in the rat during chronic low-level exposure to Lead and Tritium. A.A. Finch and L.W. Reiter, US EPA, Health Effects Research Laboratory, Research Triangle Park, North Carolina and North Carolina State University Department of Zoology, Raleigh, North Carolina. (Sponsor: S. Norton)

165. Toxicity of Lead Chromate pigments and tissue residues following 90 days feeding to albino rats. G.L. Kennedy Jr., M.L. Keplinger, R.J. Wingender, E.E. Christofano and J.C. Calandra, Industrial BIO-TEST Laboratories, Inc., Northbrook, Illinois and Hercules, Inc., Wilmington, Delaware.

166. Toxicity of Lead Chromate pigments and tissue residues following 90 days feeding to Beagle dogs. E.E. Christofano, G.L. Kennedy Jr., D.E. Gordon, M.L. Keplinger and J.C. Calandra, Hercules, Inc., Wilmington, Delaware and Industrial BIO-TEST Laboratories, Inc., Northbrook, Illinois.

167. Rapid assay system for lead bioavailability using Japanese quail. C.L. Stone, K.R. Mahaffey and M.R.S. Fox, FDA, 200 "C" St., Southwest, Washington D.C. (Sponsor: S. Shibko)

168. Comparative effects of feeding Lead acetate and phospholipid-bound lead on blood and tissue lead levels in rats. Y. Ku, G.H. Alvarez and K.R. Mahaffey, FDA, Washington D.C., (Sponsor: S. Shibko)

169. The effect of early lead exposure on the behavior of developing rats. L. Hastings, G.P. Cooper and R.L. Bornschein, University of Cincinnati, College of Medicine, Cincinnati, Ohio, (Sponsor: C.C. Smith)

March 17, 1976

WEDNESDAY AFTERNOON — GRAND
BALLROOM — NORTH

1:00-4:30

“Behavioral Toxicology Workshop”

Chairman: C. Xintaras

Exchange of test methods and recent research findings among leaders in toxicology research who are concerned with (1) early detection of potential health and safety problems resulting from exposure to neurotoxic chemicals, (2) the application of behavioral/neurologic tests in medical surveillance of exposed workers, and (3) the use of behavioral/neurological findings in the development of health and safety standards. The workshop will focus on test methods used in animal research, controlled-environment human studies, and job-site worker research.

Presentations (lectures)

1. **Principles and Concepts of Behavioral Toxicology Research** — Speaker: Charles Xintaras, NIOSH.
 2. **Neurotoxicity Screen of New Chemicals** — Speaker: Joane Spyker, Medical College of Virginia.
 3. **Neurotoxicity of Methyl Amyl Ketone** — Speaker: Barry L. Johnson, NIOSH.
 4. **Behavioral/Neurologic Effects of Drug-Solvent Interactions: PCE, Valium and Alcohol** — Speaker: Richard Stewart, Medical College of Wisconsin.
 5. **Application of Neurologic Tests in Behavioral Toxicology Research** — Speaker: Robert Baloh, UCLA Medical Center.
 6. **Effects of Carbon Monoxide on Divided Attention** — Author: Vernon R. Putz, NIOSH.
Paper read by: Barry L. Johnson
 7. **Behavioral/Neurological Findings in Viscose Rayon Workers Exposed to CS₂** — Speaker: Tom Tuttle, Westinghouse Corp.
 8. **Behavioral/Neurological Findings in Workers exposed to Pesticides** — Speaker: Staff, Medical College of Virginia.
 9. **Problems and Directions of Behavioral Toxicology Research-An Overview** — Speaker: Ralph Wands, National Academy of Sciences.
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- 4:45 **NAS-NRC “Special Report on the Committee on Toxicology”** — R.C. Wands (National Academy of Sciences)

March 17, 1976

**WEDNESDAY AFTERNOON — GRAND
BALLROOM — SOUTH**

"Drug Toxicity I"

Chairman: I. Heyman

Assisted by: E. Dillingham and J. Bruchner

- 1:15 170. **Toxicologic studies with the hypotensive agent, Minoxidil.** R.G. Carlson and E.S. Feenstra, Pathology and Toxicology Research, Upjohn Company, Kalamazoo, Michigan.
- 1:35 171. **Preclinical safety evaluation of Nadolol, a new Beta-adrenergic blocking agent.** G.R. Keim, J.S. Kulesza, J.L. Myhre, P.L. Sibley, Y.H. Yoon, and I.H. Zaidi, Squibb Institute for Medical Research, New Brunswick, New Jersey, (Sponsor: J. Poutsiaka)
- 1:55 172. **Pharmacological properties of 3-Methyl-2,3-dihydro-9H-isoxazolo(3,2-b)quinazolin-9-one (W-2451), A new non-narcotic analgesic.** R. Sofia, W. Diamantis and R. Gordon, Wallace Laboratories, Cranbury, New Jersey.
- 2:15 173. **Preclinical safety evaluation of 3-Methyl-2,3-dihydro-9H-isoxazolo(3,2-b)quinazolin-9-one (W-2451), A new non-narcotic analgesic agent.** B.N. Banerjee, N.J. Ivins and R.D. Sofia, Wallace Laboratories, Cranbury, New Jersey.
- 2:35 174. **Toxicology of Phencyclidine in mice.** C.J. Stone and R.B. Forney, Indiana University School of Medicine, Indianapolis, Indiana.
- 2:55 175. **Subacute exposure of rats and monkeys to a new general inhalation anesthetic.** W.H. Schoenfish, Hazleton Laboratories America, Inc., Vienna, Virginia and American University, Washington, D.C. and H.H. Borgstedt, University of Rochester, Rochester, New York.
- 3:15 176. **The acute toxicity of 2-Benzylaminopyridine.** L. Griffis and R.B. Forney, Indiana University School of Medicine, Indianapolis, Indiana.
- 3:35 177. **Preclinical toxicologic evaluation of Coralyne sulfoacetate (NSC-154890) in mice, dogs and monkeys.** T.R. Castles, J.S. Hicks, J.L. Sanyer and C.C. Lee, Midwest Research Institute, Kansas City, Missouri.
- 4:15 **"Toxicology of Agricultural Chemicals Under Conditions of Use" — W.A. Rader, Chevy Chase, D.C.**

March 17, 1976

**WEDNESDAY AFTERNOON — TARA
BALLROOM SUITES 1, 2, 3**

"Agricultural Chemicals II"

Chairman: H. B. Camp

Assisted: A. Wolven

- 1:30 178. **Inhalation toxicity of cacodylic acid.** J.T. Stevens, L.C. DiPasquale and J.D. Farmer, Inhalation Toxicology Section, Toxic Effects Branch, Environmental Toxicology Division, HERL, US EPA, Research Triangle Park, North Carolina, (Sponsor:W.F. Durham)
- 1:50 179. **Chronic toxicity, mutagenicity and carcinogenicity studies of a new herbicidal candidate (3,4,5-Tribromo-N,N,a-trimethylpyrazole-1-acetamide or U-27267).** L.S. Goyings, M.W. Glenn, R.L. Johnston, T.J. Kauk, and J.A. Swenberg, Agricultural Division, The UpJohn Company, Kalamazoo, Michigan.
- 2:10 180. **Toxic interactions of Piperonyl butoxide with Dimethyl and Diethyl phosphorothionate insecticides in mice.** B.S. Levine and S.D. Murphy, Harvard School of Public Health, Boston, Massachusetts.
- 2:30 181. **Workers safety reentry study involving Phosalone on citrus.** M.A. Gallo, J.B. Knaak, D.T. Little, and K.T. Maddy, Food and Drug Research Laboratories, East Orange, New Jersey, California Department of Agriculture, Sacramento, California, and Rhodia, Inc., Somerset, New Jersey.
- 2:50 182. **Interaction of Carbaryl and Dieldrin on the metabolism of ^3H -testosterone(^3H -T).** L.G. Schein, J.A. Thomas, P. Klase and W. Edwards, West Virginia University Medical Center, Morgantown, West Virginia.
- 3:10 183. **Combined effects of Parathion and Carbaryl on the biotransformation of ^3H -Testosterone (^3H -T) in the male mouse.** J.A. Thomas and L.G. Schein, West Virginia University Medical Center, Morgantown, West Virginia.
- 3:30 184. **Relative Cholinesterase and Alkylcholinesterase inhibition in rat and human blood from exposure to an organic phosphate pesticide.** F.K. Kinoshita, J.P. Frawley, M.L. Keplinger and J.C. Calandra Industry BIO-TEST Laboratories, Inc., Northbrook, Illinois and Hercules, Inc., Wilmington, Delaware.
- 3:50 185. **Vitamin C distribution in channel catfish as affected by Toxaphene.** F.L. Mayer, and P.M. Mehrle, Fish-Pesticide Research Laboratory, Fish and Wildlife Service, US Department of the Interior, Columbia, Missouri.
- 4:10 186. **The inhibitory effect of DDT on Insulin secretion by isolated mouse pancreatic islets.** E.T. Yau and J.H. Mennear, Purdue University, West Lafayette, Indiana.

March 17, 1976

WEDNESDAY AFTERNOON — HALL OF
NATIONS EXHIBITION HALL

“Halogenated Hydrocarbons II Poster Session II”

Chairman: E. VanStee

1:30 — 3:00

187. **The nature of the inhibition of renal transport caused by the acute administration of 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T).** F. Koschier and W.O. Berndt, University of Mississippi Medical Center, Jackson, Mississippi, (Sponsor: A. Hume)

188. **Metabolic Studies with TCDD (Dioxin) treated rats.** J. Putnam and K.D. Courtney, EPA, Research Triangle Park, North Carolina, (Sponsor: W.F. Durham)

189. **Alteration of Xenobiotic metabolism by chlorinated benzenes.** G.P. Carlson and R.G. Tardiff, University of Rhode Island, Kingston, Rhode Island and EPA, Cincinnati, Ohio.

190. **Tissue distribution and biliary excretion of 2,5,2',5'-Tetrachlorobiphenyl (TCB) and 2,4,5,2',4',5'-Hexachlorobiphenyl (HCB) in male and female rats.** J.L. Seymour, R.E. Peterson and J.R. Allen, School of Medicine, School of Pharmacy and Regional Primate Research Center, University of Wisconsin, Madison, Wisconsin, (Sponsor: C.L. Hake)

191. **The potential methemoglobin and Heinz body inducing capacity of Pentachloronitrobenzene (PCNB) in the cat.** A.M. Schumann and J.F. Borzelleca, Medical College of Virginia, Richmond, Virginia.

192. **Perinatal toxicity in mice following maternal dietary exposure to poly-brominated biphenyls.** M.M. Preache, S.Z. Cagen and J.E. Gibson, Michigan State University, East Lansing, Michigan.

193. **Biochemical observations on Methylene chloride-Induced fatty liver.** J.B. Morris and F.A. Smith, University of Rochester School of Medicine and Dentistry, Rochester, New York.

194. **B-Chloroprene (2-Chlorobutadiene-1,3) embryotoxic and teratogenic studies in rats.** R. Culik, D.P. Kelly and J.J. Clary, Haskell Laboratory for Toxicology and Industrial Medicine, E.I. duPont de Nemours and Company, Elkton Road, Newark, Delaware.

195. **Some factors affecting the mortality of fasted rats intubated with 1,1-Dichloroethylene.** M.E. Andersen and L.J. Jenkins Jr., Naval Medical Research Institute, Bethesda, Maryland.

196. **In vitro metabolism of dihalomethanes to Formaldehyde and Inorganic Halide.** A.E. Ahmed and M.W. Anders, University of Minnesota, Minneapolis, Minnesota.

March 17, 1976

WEDNESDAY AFTERNOON — HALL OF
NATIONS EXHIBITION HALL

"Halogenated Hydrocarbons III Poster Session II"

Chairman: C. Urich

3:15 — 4:45

197. **Uptake and distribution of Carbon Tetrachloride in Rainbow trout.** C.N. Statham and J.J. Lech, Medical College of Wisconsin, Milwaukee, Wisconsin.

198. **Distribution of ^{14}C -1,1-DCE in fed or fasted rats.** L.G. Shoner, R.J. Jaeger and S.D. Murphy, Harvard School of Public Health, Boston, Massachusetts.

199. **Hepatotoxicity of 1,1-Dichloroethylene: Influence of altered thyroid function in rats.** R.J. Jaeger, S. Szabo, L. Coffman, M.T. Moslen, E.S. Reynolds and S.D. Murphy, Harvard School of Public Health, and Departments of Pathology, Harvard Medical School and Peter Bent Brigham Hospital, Boston, Massachusetts.

200. **Experimental human exposures to Perchloroethylene, I. Absorption and excretion.** C.L. Hake, R.D. Stewart, A. Wu and S.A. Graff, The Medical College of Wisconsin, Milwaukee, Wisconsin.

201. **Experimental human exposure to Perchloroethylene, II. Physiological and behavioral responses.** R.D. Stewart, C.L. Hake, H.B. Forster, P.E. Newton, R.J. Soto and S.K. Marlow, The Medical College of Wisconsin, Milwaukee, Wisconsin.

202. **Biotransformation and distribution of Pentachloronitrobenzene in chickens.** W.D. McCoy, E.J. Kuchar, H. Klein and J.F. Borzelleca, Medical College of Virginia, Richmond, Virginia and Olin Research Foundation, New Haven, Connecticut.

203. **The relationship between retention of pure Chlorobiphenyl congeners in rat liver and effects on hepatic mixed function oxidases.** M.M. Hansell and D.J. Ecobichon, Dalhousie University, Halifax, Canada.

204. **The effects of vinyl bromide exposure in rats pre-treated with phenobarbital or diethylmaleate.** R.T. Drew, J.M. Patel and E.W. VanStee, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.

205. **Effect of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) on renal function in rats in vivo.** K.M. McCormack, J.E. Gibson and J.B. Hook, Michigan State University, East Lansing, Michigan.

206. **Effect of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) on renal function in rats in vitro.** W.R. Hewitt, D.G. Pegg and J.B. Hook, Michigan State University, East Lansing, Michigan, (Sponsor: T.M. Brody)

March 18, 1976

THURSDAY MORNING — GRAND BALLROOM
NORTH

"Oncogenesis"

Chairman: N. Page

Assisted by: L. VanPetten and R. Swickey

- 8:30 207. **Relation of chemically induced hyperplasia to neoplasia of mouse bladder urothelium.** C.H. Frith, University of Arkansas College of Medicine, Little Rock, Arkansas and The National Center for Toxicological Research, Jefferson, Arkansas, (Sponsor: B. Highman)
- 8:50 208. **Seven year progress report on long term oral contraceptive studies in female dogs and monkeys.** F.X. Wazeter, R.G. Geil, K.M. Cookson, V.R. Berliner and J.K. Lamar, International Research and Development Corp., Mattawan, Michigan and FDA, Rockville, Maryland.
- 9:10 209. **B-Naphthylamine induced urinary bladder cancer in inbred Syrian BIO hamsters.** F. Homburger, K. VanDongen, A. Handler and E. Soto, Bio-Research Institute, Inc., Cambridge, Massachusetts.
- 9:30 210A. **Evaluation of the oncogenic potential of chloroform by chronic oral administration in rodents.** M.B. Powers and R.W. Voelker, Hazleton Laboratories America, Inc., Vienna, Virginia.
- 210B. **Pathology of long term oral administration of chloroform in rodents.** R.F. Renne, J.F. Ferrell, R.E. Voelker and M.B. Powers, Experimental Pathology Laboratories, Inc., Herndon, Virginia and Hazleton Laboratories, America Inc., Vienna, Virginia.
- 9:50 211. **The carcinogenic response in mice to the dermal application of Propane sultone.** S.M.A. Doak, B.J. Simpson, P.F. Hunt and D.E. Stevenson, Tunstall Laboratory, Shell Research Ltd., Sittingbourne, Kent, England.
- 10:10 212. **Hepatic and extrahepatic glutathione-S-transferase activity towards several potentially carcinogenic epoxides.** J. VanAnda, Z. BenZvi, P.M. Dansette, D.M. Jerina and J.R. Bend, National Institute of Environmental Health Science, Research Triangle Park, North Carolina and National Institute of Arthritis, Metabolic and Digestive Diseases, Bethesda, Maryland, (Sponsor: J.R. Fouts)
- 10:30 213. **Mammary nodules in dogs receiving Depo-Provera and Progesterone: A preliminary report.** M.E. Coleman, T.E. Murchison and D. Frank, Dawson Research Corp., Orlando, Florida, and the Upjohn Company, Kalamazoo, Michigan.
- 10:50 214. **Acromegalic changes in beagles after long-term Progestagen treatment.** M.E. Coleman, T.E. Murchison and D. Frank, Dawson Research Corp., Orlando, Florida, and the Upjohn Company, Kalamazoo, Michigan.
- 11:10 215. **In vivo Nitroreduction of the Nitronaphthalenes.** D.E. Johnson and H.H. Cornish, School of Public Health, University of Michigan, Ann Arbor, Michigan.

March 18, 1976

THURSDAY MORNING — GRAND BALLROOM
SOUTH

"Drug Toxicity II"

Chairman: *E. Goldenthal*

Assisted by: *R. Steelman and J. Smith*

- 8:30 216. **Effect of Aspirin on plasma levels, binding, excretion, and activity of the anti-inflammatory: (d,1)-6-chloro-a-methyl-carbazole-2-acetic acid (C-5720) in rats.** C.B. Coutinho, J.A. Cheripko and T. Crews, Research Center, Hoffman-LaRoche Inc., Nutley, New Jersey.
- 8:50 217. **Factors related to increased susceptibility to intestinal lesions with non-steroidal anti-inflammatory agents in the lactating rat.** R.M. McClain, F. Rubio, W. Dairman, R.M. Hoar, B. Koechlin and E.A. Pfitzer, Hoffman-LaRoche Inc., Nutley New Jersey.
- 9:10 218. **The effect of Splronolactone on the toxicity of Indomethacin.** C.D. Klaassen, University of Kansas Medical Center, Kansas City, Kansas.
- 9:30 219. **Relationship between small intestinal B-Glucuronidase activity and intestinal ulceration caused by non-steroidal anti-inflammatory agents.** W. Dairman, R.M. McClain, L.P. Juhasz and G. Roberts, Hoffman-LaRoche Inc., Nutley, New Jersey, (Sponsor: E.A. Pfitzer)
- 9:50 220. **Chronic oral toxicity of a non-steroidal anti-inflammatory agent in Rhesus monkeys.** J.L. Emerson, Dow Chemical Company, Indianapolis, Indiana.
- 10:10 221. **Toxicology and pharmacology of 5-Methylfurmitide and related compounds.** R.F. Ochillo, A.K. Chaturvedi, B.V. Rama Sastry and S.T. Kau, Vanderbilt University School of Medicine, Nashville, Tennessee.
- 10:30 222. **Thymus, the forgotten organ in toxicological testing?** T. Malmfors, Astra Pharmaceuticals AB, Soderstalje, Sweden.
- 10:50 223. **Pharmacological effects of the combined administration of ethanol and methaqualone in mice.** J. Brodeur, J.J. Rousseau and M. Rousseau, Faculty of Medicine, Universite de Montreal, Montreal, Canada.
- 11:10 224. **Toxicity and effects upon rat cerebrospinal fluid pressure of hexachlorophene analogs.** J.P. Hanig, P. Yoder and S. Krop, FDA, Washington, D.C.

March 18, 1976

THURSDAY MORNING — TARA BALLROOM
SUITES 1, 2, 3,
"Eye and Ear"

Chairman: R. Bagdon

Assisted by: G. Kennedy and F. Kinoshita

- 8:30 **225. Evaluation of proposed changes in the modified draize rabbit irritation test.** S. Bayard, Division of Scientific Coordination, R.M. Hehir, Director, Bureau of Biomedical Science, Consumer Product Safety Commission, Bethesda, Maryland.
- 8:50 **226. Effects of model eye irritants on corneal proteins and water content.** P.L. Wright, A.G. Ulsamer, and R.E. Osterberg, Bureau of Biomedical Science, CPSC, Washington, D.C., (Sponsor: R.M. Hehir)
- 9:10 **227. A comparative study of rabbit ocular reactions to various exposure times to chemicals.** V.M. Seabaugh, R.E. Osterberg, C.A. Hoheisel, J.C. Murphy*, G.W. Bierbower, Division of Biomedical Science, Bureau of Biomedical Science, CPSC, Washington, D.C., and *University of Mississippi, Jackson, Mississippi, (Sponsor: J. McLaughlin Jr.)
- 9:30 **228. Drug induced retinal degeneration observed in the rat during safety evaluation of 1-(p-chloro-phenyl), 1,2-cyclopropanedicarboximide(cyproximide).** W. Lynch, B. Sparano, I. Schoch, M. Brecher, R. Bellhorn, H. Diermeier, C. Boshart, A. Knezevich and J. Noble, Lederle Laboratories Division American Cyanamid Company, Pearl River, New York.
- 9:50 **229A. Cataractogenic properties of Mirex in rats and mice with notes on Kepone.** N. Chernoff, T.M. Scotti, and R.E. Linder, US EPA, Health Effects Research Laboratory, Research Triangle Park, North Carolina, (Sponsor: W.F. Durham)
- 229B. Histopathologic lenticular changes in Mirex-exposed rats.** T.M. Scotti, N. Chernoff and R.E. Linder, EPA, Research Triangle Park, North Carolina, (Sponsor: W.F. Durham)
- 10:10 **230. Pupillary response to Dichlorvos in the dog.** F.B. Winston, D.J. Wagstaff and J. Hazelwood, FDA, Division of Veterinary Research, Beltsville, Maryland.
- 10:30 **231. Comparative ototoxicity of Amikacin and Gentamicin in the cat.** FE.F. Christensen, J.C. Reiffenstein, H. Madisoo and G.H. Hottendorf, Research Division, Bristol Laboratories, Syracuse, New York.

March 18, 1976

THURSDAY MORNING — HALL OF NATIONS
EXHIBITION HALL

"General Poster Session"

8:45 — 10:15

232. **Distribution of metabolites of benzo(a)pyrene in the isolated perfused rabbit lung preparation.** W. Dalbey and E. Bingham, University of Cincinnati, College of Medicine, Cincinnati, Ohio.

233. **Subchronic percutaneous toxicity of acrylamide and Methacrylamide in the new-born rabbit.** D.T. Drees, F.L. Crago, C.R. Hopper, and J.M. Smith, Rohm and Haas, Spring House, Pennsylvania.

234. **The effect of hemoglobin, myoglobin and furosemide on renal oxygen consumption in the dog.** W.M. Watrous, M. Trew and M.A. Baltzan, College of Medicine University of Saskatchewan, Saskatoon, Canada.

235. **The inhalation toxicity of Phenylglycidyl ether: mutagenic, teratogenic, cytogenetic and 90-day studies.** J.B. Terrill and K.P. Lee, Haskell Laboratory for Toxicology and Industrial Medicine, E.I. duPont de Nemours and Company, Elkton Road, Newark, Delaware.

236. **Effect of lead on behavioral, morphological and biochemical indices of development in the neonatal rat brain.** D.R. Brown, A.W. Klein and R.T. Louis-Ferdinand, University of Maryland at Baltimore, Baltimore, Maryland.

237. **Developments in short term testing for carcinogens.** D. Anderson, P.A. Lefevre, E. Longstaff, I.F.H. Purchase, J.A. Styles and F.R. Westwood, Imperial Chemical Industries Ltd., Central Toxicology Laboratory, Alderley Park Near Macclesfield, Cheshire, SK10 4TJ, England, (Sponsor: A.A.B. Swan)

238. **Chronic toxicity of Methylmercury in the adult cat.** E.A. Nera, S.M. Charbonneau and I.C. Munro, Bureau of Chemical Safety, Health Protection Branch, Health and Welfare Canada, Ottawa, Canada.

239. **Chronic toxicity of Methylmercury in the adult cat.** S.M. Charbonneau, I.C. Munro, E.A. Nera, F.A.J. Armstrong and R.F. Willes, Bureau of Chemical Safety, Health Protection Branch, Health and Welfare Canada, Ottawa, Canada.

