

SOCIETY
of
TOXICOLOGY
INCORPORATED



PROGRAM

FOURTH ANNUAL MEETING

FOR THE SOCIETY OF TOXICOLOGY, INCORPORATED, 1000 WASHINGTON AVENUE, WASHINGTON, D.C. 20001

Williamsburg, Virginia

MARCH 8-10, 1965

FOR THE SOCIETY OF TOXICOLOGY, INCORPORATED, 1000 WASHINGTON AVENUE, WASHINGTON, D.C. 20001

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Carrol S. Weil*Secretary*
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Verald K. Rowe (1963-65)
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(Year elected in brackets)

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INFORMATION

REGISTRATION

Pre-registration forms obtainable from Secretary:

Mr. Carrol S. Well
Mellon Institute
4400 Fifth Avenue
Pittsburgh, Pennsylvania 15213

Registration Desk—Conference Center

Sunday, March 7—2:00 P.M. - 5:00 P.M.
7:30 P.M. - 10:00 P.M.
Monday, March 8—8:30 A.M. - 5:00 P.M.
Tuesday, March 9—8:30 A.M. - 5:00 P.M.
Wednesday, March 10—8:30 A.M. - 12:00 Noon

Fees—Society of Toxicology members: \$10.00

Non-members: \$15.00

Abstracts—On sale at meeting \$1.00

One copy mailed to each S. O. T. member or distributed without charge to non-members registrants at Registration Desk.

MEETINGS

Scientific Sessions—Location:

North Ballroom—Conference Center
Tidewater Room—Conference Center

Annual Business Meeting:

Tidewater Room, Monday, March 8—4:00 P.M.

SOCIAL EVENTS

Social Hour: Monday, March 8—6:00 P.M.

North Gallery, Conference Center
Hazleton Laboratories, Inc.—Host

Banquet: Tuesday, March 9—7:00 P.M.

Virginia Room, Conference Center
Tickets available at Registration Desk.
Food and Drug Research Laboratories, Inc.—Host
for wine.

MONDAY, MARCH 8th

MONDAY MORNING

Tidewater Room

Chairman: Kenneth P. DuBois
University of Chicago
Chicago, Illinois

- 9:00 Enzymatic Dechlorination of Certain Chlorinated Compounds.** Russell A. Van Dyke, The Dow Chemical Company, Midland, Mich.
- 9:20 Adaptive Enzymes and Glycogen in Livers of Rats Subjected To Toxic Stress.** Sheldon D. Murphy, Harvard School of Public Health, Boston, Mass.
- 9:40 Effect of Phenobarbital on the Metabolism of Dieldrin.** Cipriano Cueto, Jr. and Wayland J. Hayes, Jr., Communicable Disease Center, U. S. Public Health Service, Atlanta, Ga.
- 10:00 Unsymmetrical Dimethylhydrazine (UDMH) Induced Diuresis.** Mary L. Barth, Carol L. Geake and Herbert H. Cornish, University of Michigan, School of Public Health, Ann Arbor, Mich.
- 10:20 The Metabolic Fate of 1-Methyl-3-Pyrrolidyl α Cyclohexylmandelate Methobromide, a new Antiperspirant.** Robert B. Bruce, Jack H. Newman and Lennox B. Turnbull, A. H. Robins Company, Richmond, Va.
- 10:40 Salivary Excretion of Drugs.** Henry M. Cherrick and Joseph F. Borzelleca, Medical College of Virginia, Richmond, Va.
- 11:05 The effects of Carbaryl (Sevin®) on Blood Glucose and Liver and Muscle Glycogen in Fed and Fasted Rats.** R. A. Orzel and L. R. Weiss, Food and Drug Administration, Washington, D. C.
- 11:25 Species Difference in the Metabolism of Methanol.** G. J. Mannering, A. Makar, D. Van Harken and T. E. Tephly, University of Minnesota, Minneapolis, Minn.
- 11:45 The Potentiation of Acute Ethanol-Induced Fatty Liver by Doxapram Hydrochloride.** Joseph F. Borzelleca, Medical College of Virginia, Richmond, Va.

TUESDAY, MARCH 9th

TUESDAY MORNING

North Ballroom

Chairman: Edward D. Palmes
New York University
New York, New York

- 9:00 Application of the Evoked Response Technique in Air Pollution Toxicology.** Charles Xintaras, Barry L. Johnson, Charles E. Ulrich, U. S. P. H. S., Cincinnati, Ohio.
- 9:20 Pulmonary Responses of Rats to Turpentine Vapors.** Frederick Sperling and William Marcus, Howard University School of Medicine, Washington, D. C.
- 9:40 The Effect of Spinal Cord Lesions on the Pathophysiology of a Lung Irritant, Ozone.** Edward J. Fairchild and Gustavus A. Bobb, USPHS Division of Occupational Health, Cincinnati, Ohio.
- 10:00 Convenient Procedures for Checking the Accuracy of Gas Detector Tubes.** Rolla N. Harger and Robert B. Forney, Indiana University School of Medicine, Indianapolis, Ind.
- 10:20 New Horizons in Space Cabin Toxicology.** Anthony A. Thomas, Wright Patterson Air Force Base, Ohio.
- 10:40 Comparative Effects of Organic Phosphates on Rat and Human Muscle Function.** T. A. Loomis, University of Washington, Seattle, Wash.
- 11:05 Analytical Control in the Clinical Toxicology Laboratory.** Steven Carson, Myron S. Weinberg and Bernard L. Oser, Food and Drug Research Laboratories, Inc., Maspeth, N. Y.
- 11:25 Comparison of Biological and Chemical Assay Methods for Estimating Acetylcholine Concentration in Rat Brain.** William B. Stavinoha and Leonard C. Ryan, Civil Aeromedical Research Institute, Oklahoma City, Okla.
- 11:45 Adrenocortical Function Tests in Toxicity Studies.** Tibor Balazs and David Kupfer, Lederle Laboratories, Pearl River, N. Y.

TUESDAY, MARCH 9th

TUESDAY MORNING

Tidewater Room

Chairman: Jack E. Gray
The Upjohn Company
Kalamazoo, Michigan

- 9:00 A Comparison of the Toxic Effects of the -21-Phosphate Esters of Triamcinolone Acetonide, Dexamethasone and Hydrocortisone Following Daily Intravenous Administration to Dogs for One Month.** J. F. Nobel and W. M. Layton, Jr., Lederle Laboratories, Pearl River, N. Y.
- 9:20 Subacute Oral Toxicity of Zinophos.** F. E. Kohn, J. H. Kay and J. C. Calandra, Industrial Bio-Test Laboratories, Northbrook, Ill.
- 9:40 Subacute Oral Toxicity of Biodegradable Santomerse 85-b.** J. H. Kay, F. E. Kohn, and J. C. Calandra, Industrial Bio-Test Laboratories, Northbrook, Ill.
- 10:00 Phenacetin: Long Term Studies in Rats and Dogs.** Geoffrey Woodard, Katherine F. Post, Kermit Cockrell and M. T. I. Cronin, Woodard Research Corporation, Herndon, Va.
- 10:20 The Chronic Toxicity of Ruelene and a Ruelene Derivative in Beagle Dogs.** W. H. Dieterich, O. E. Paynter and R. J. Weir, Hazleton Laboratories, Incorporated, Falls Church, Va.
- 10:40 Long Term Safety Evaluation Studies on Benzyl N-Benzyl Carbethoxy-Hydroxamate (W-398).** R. A. Scala, T. W. Tusing, S. Margolin and F. M. Bergen, Hazleton Laboratories, Incorporated, Falls Church, Va.
- 11:05 Chronic Toxicity Study on Interaction in a Combination of Food Additives and Pesticides.** Jean M. Taylor, Ernest C. Hagan and Robert T. Habermann, Food and Drug Administration, Washington, D. C.
- 11:25 Glyceryl Trinitrate II Chronic Toxicity.** James C. Munch, Miami Shores, Fla.
- 11:45 Chronic Toxicity Study of Anapregone (DNAP) in Rats and Dogs.** Theodore O. King and J. Lubansky, Ortho Research Foundation, Raritan, N. J.

TUESDAY, MARCH 9th
TUESDAY AFTERNOON

North Ballroom

Chairman: John P. Frawley
Hercules Powder Company
Wilmington, Delaware

- 1:30 Toxicological Problems in the Field of Agriculture.** Kingsley Kay, Canadian National Department of Health and Welfare, Ottawa, Canada.
- 1:50 Toxicity of Combinations of Pesticides.** M. L. Keplinger and W. B. Deichmann, University of Miami, Coral Gables, Florida.
- 2:10 DDT and DDE Content of Complete Prepared Meals.** William F. Durham, John F. Armstrong and Griffith E. Quinby, U. S. P. H. Communicable Disease Center, Wenatchee, Wash.
- 2:30 Histochemical Differentiation Between Free Cholesterol and Cholesterol Ester for the Assessment of Pesticide-Induced Demyelination.** H. Johnson and L. R. Weiss, Food and Drug Administration, Washington, D. C.
- 2:50 Pharmacological Interaction of Drug Effects in Rats Chronically Intoxicated with Parathion.** L. R. Weiss, Food and Drug Administration, Washington, D. C.
- 3:10 Biochemical and Electron Microscopic Changes Observed in Rats and Monkeys Medicated Orally with Methoxychlor [2,2-bis (p-methoxyphenyl)-1,1,1-trichloroethane].** D. M. Serrone, A. A. Stein and F. Coulston, Institute of Experimental Pathology and Toxicology, Albany Medical College of Union University, Albany, N. Y.
- 3:30 Methoxychlor Toxicity: Comparative Studies in the Beagle Dog and Miniature Swine.** Andrew S. Tegeris, Francis L. Earl, Harry E. Smalley and Jack M. Curtis, Food and Drug Administration, Washington, D. C.
- 3:50 Safety Evaluation of Methoxychlor [2,2-bis (p-methoxyphenyl)-1,1,1-trichloroethane] in Human Volunteers.** A. A. Stein, D. M. Serrone and F. Coulston, Institute of Experimental Pathology and Toxicology, Albany Medical College of Union University, Albany, N. Y.
- 4:10 Toxicity Studies on Ammonium Sulfamate.** D. E. Rosen, C. J. Krister, Henry Sherman and Edwin F. Stula, Industrial and Biochemicals Department, E. I. du Pont de Nemours and Company, and Haskell Laboratory for Toxicology and Industrial Medicine, Wilmington, Del.
- 4:30 Some Toxic Effects of Ingested Polluting Oils on Waterfowl.** Rolf Hartung and George S. Hunt, Departments of Industrial Health and Wildlife Management, University of Michigan, Ann Arbor, Mich.
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- 7:00 Society of Toxicology Banquet —**
Virginia Room, Conference Center.

TUESDAY, MARCH 9th
TUESDAY AFTERNOON
Tidewater Room

Chairman: Jack L. Radomski
University of Miami
Coral Gables, Florida

- 1:30 Experimental Aflatoxicosis in Peking White Ducklings and Coturnix Quail.** Bernard H. Armbrrecht, George W. Bierbower and Paul C. Underwood, Food and Drug Administration, Washington, D. C.
- 1:50 Effect of Hypothermia on α -Naphthylisothiocyanate-Induced Cholestasis.** Gabriel L. Pila and Robert J. Roberts, Department of Pharmacology, College of Medicine, University of Iowa, Iowa City, Iowa.
- 2:10 Further Studies of the Toxicity of the Venom of POGONOMYRMEX BARBATUS, the Large Brown Desert Ant.** Martin W. Williams and Charles S. Williams, Veterans Administration Hospital, Tucson, Ariz.
- 2:30 Proteolytic Enzyme Activities of Snake Venoms.** Delbert A. Greenwood, Anthony T. Tu, Gordon P. James and Azucena Chua, Utah State University, Logan, Utah.
- 2:50 Studies in Chemical Carcinogenesis .II.0 4-Nitrobiphenyl.** Souheil Laham, Harold C. Grice and John W. Sinclair, Ottawa, Ontario, Canada.
- 3:10 Carcinogenesis by Simultaneous Action of Several Agents.** J. H. Weisburger, Z. Hadidian, T. N. Fredrickson and E. K. Weisburger, National Cancer Institute, Bethesda, Md., and Mason Research Institute, Worcester, Mass.
- 3:30 Tests on Mice for Evaluating Carcinogenicity.** Harold C. Hodge, Elliott A. Maynard, William L. Downs, John K. Ashton and Lillian L. Salerno, University of Rochester School of Medicine and Dentistry, Rochester, N. Y.
- 3:50 The Marmoset as an Experimental Animal in Toxicology.** Robert E. Bagdon and J. A. F. de Silva, Hoffman - La Roche, Inc., Nutley, N. J.
- 4:10 Toxicological Studies on Typosin: Its Safety as a Food Additive.** Robert C. Anderson, Harold M. Worth, Richard M. Small and Paul N. Harris, Lilly Toxicology Laboratories, Greenfield, Ind.
- 4:30 A Radiotracer Balance Study of C¹⁴ Polyvinyl Methyl Ether Maleic Anhydride Copolymer (PVM/MA) in the Rat.** I. M. Ford, Stauffer Chemical Company, Mountain View, Calif.

7:00 Society of Toxicology Banquet —
Virginia Room, Conference Center.

WEDNESDAY, MARCH 10th

WEDNESDAY MORNING

North Ballroom

Chairman: Frank R. Blood
Vanderbilt University School of Medicine
Nashville, Tennessee

- 9:00** **The Effect of Depressed Body Weight Gain on Relative Organ Weights in Rats.** E. B. Robbins, R. M. Small and R. C. Anderson, Lilly Toxicology Laboratories, Greenfield, Ind.
- 9:20** **Organ Weights and Water Levels in Albino Rats Following Fortnight Starvation.** Josef M. Peters and Eldon M. Boyd, Queens University, Ontario, Canada.
- 9:40** **Analyses of Organ Weights and Organ to Body Weight Ratios for 500 Untreated Purebred Beagle Dogs.** John W. Johnson, Marie W. Woodard, and Kermit O. Cockrell, Woodard Research Corporation, Herndon, Va.
- 10:00** **Acute Toxicity in the Adult Versus the Newborn Mouse.** James Hoppe, L. P. Dapuey and E. W. Dennis, Sterling Winthrop Research Institute, Rensselaer, N. Y.
- 10:20** **A Comparison of the Acute Toxicities of Drugs in Newborn and Adult Rats.** Roger A. Yeary and Robert A. Benish, Lakeside Laboratories, Incorporated, Milwaukee, Wis.
- 10:40** **Serum Enzyme Response to Specific Organ Damage.** Lee D. Beatty, Vernon L. Dodson, and Herbert H. Cornish, University of Michigan, Ann Arbor, Michigan.
- 11:00** **The Role of Autoimmunity in Carbon Tetrachloride Intoxication; Influence of Route of Administration.** Vernon N. Dodson, Ian Mitchell, Roberta Friberg and Dorothy Ketchum, University of Michigan, Ann Arbor, Mich.
- 11:20** **Protective Effects of Low Doses of Cadmium Chloride Against Subsequent High Oral Doses in the Rat.** C. J. Terhaar, Eugene Vis, R. L. Roudabush, and D. W. Fassett, Eastman Kodak Company, Rochester, N. Y.
- 11:40** **Experience with the Guinea Pig in Screening Primary Irritants and Sensitizers.** D. B. Hood, R. J. Neher, R. E. Reinke and J. A. Zapp, Jr., E. I. du Pont de Nemours & Company, Wilmington, Del.

WEDNESDAY, MARCH 10th

WEDNESDAY MORNING

North Ballroom

Chairman: O. Garth Fitzhugh
Food and Drug Administration
Washington, D. C.

- 9:00 Evaluation of the Safety of 3,5-Dinitrobenzamide.** K. B. Kerr, P. R. Abrahamson and J. R. Ipson, Dr. Salsbury's Laboratories, Charles City, Iowa.
- 9:20 Some Aberrant Effects in Control Groups During Repeated-Dose Toxicological Studies and a Note on Valid "N" in Fertility Studies.** Carrol S. Weil, Mellon Institute, Pittsburgh, Pennsylvania.
- 9:40 Toxicology of Progestagens with Special Reference to Dimethisterone and Megestrol Acetate.** John H. Weikel, Jr., and Allan G. Wheeler, Mead Johnson Research Center, Evansville, Indiana.
- 10:00 Toxicity of Imidan® (Phthalimidomethyl-0,0-Dimethyl Phosphorodithioate) and Five Analogs to the Chick, Rat and House Fly.** Martin Sherman, Raymond Herrick and M. T. Y. Chang, University of Hawaii, Honolulu, Hawaii.
- 10:20 Studies on the Delayed Toxicity of Phthalanilides and Other Compounds.** Paul E. Palm, William I. Rogers, David W. Yesair and Charles J. Kensler, Arthur D. Little, Inc., Cambridge, Mass.
- 10:40 Hemorrhagic Involvement in the Toxicity of Sodium 4-Hydroxybutyrate.** Gareth Owen, A. Dervinis and H. P. K. Agersborg, Jr., Wyeth Laboratories, Inc., Radnor, Pa.
- 11:00 Toxicology of 4-Tert. Butyl-2-Chlorophenyl Methyl Methylphosphoramidate (Ruelene).** D. D. McCollister, F. Oyen, K. J. Olson and V. K. Rowe, The Dow Chemical Company, Midland, Mich.
- 11:20 Ring Aromaticity Requirement for Enhanced Toxicities (Mouse) of Tropanol Phenylacetates.** Seymour L. Friess and L. J. Reber, U. S. Naval Medical Research Institute, Bethesda, Maryland.
- 11:40 Toxicological Studies on Beryllium Oxides.** Howard C. Spencer, Judith C. Jones, S. E. Sadek, Kathryn B. Dodson and Alice H. Morgan, The Dow Chemical Company, Midland, Michigan.

APPOINTED COMMITTEES

NOMINATING COMMITTEE

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