

Manufacturing Chemists Association

Record of Meeting

VINYL CHLORIDE TECHNICAL PANEL
VINYL CHLORIDE RESEARCH COORDINATORS
VINYL CHLORIDE MEDICAL SUBCOMMITTEE

University of Louisville

Louisville, Kentucky

June 14, 1978

Dr. T. R. Torkelson, Panel Chairman, presided and opened the meeting at 8:35 a.m. The following members and guests were present:

MEMBERS PRESENT

T. R. Torkelson
W. D. Harris

M. N. Johnson

R. B. Judge
C. D. Kary
R. W. Laundrie
R. W. McBurney
R. A. Park (a)
R. N. Wheeler

J. T. Seawell

The Dow Chemical Company
Uniroyal Chemical Co., Division
of UNIROYAL, Inc.
The BFGoodrich Company, Chemical
Division
W. R. Grace & Co.
Shell Oil Company
The General Tire & Rubber Company
Diamond Shamrock Corporation
Firestone Plastics Company
Union Carbide Corporation

MCA Staff

(a) For R. S. Brookman

MEMBERS ABSENT

R. J. Abramowitz

L. H. Ballou

Z. G. Bell, Jr.
C. U. Dernehl
J. D. Dougherty
B. W. Duck
D. P. Duffield

Hooker Chemicals & Plastics
Corporation
The Firestone Tire and Rubber
Company
PPG Industries, Inc.
Union Carbide Corporation
Allied Chemical Corporation
British Petroleum Co. Ltd.
Imperial Chemical Industries
Limited

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Calcasieu Parish, Louisiana

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MEMBERS ABSENT (Continued)

R. E. Eckardt
A. W. Fuhrman
R. L. Gibson
R. T. Gottesman
J. G. Heil
C. A. Johnson
F. Kennedy
S. K. Law
A. B. Lindquist
R. L. O'Connell
G. Roush
H. A. Russell
H. L. Schmidt

W. M. Smith
G. Ter Haar
H. M. Zimmerman

Exxon Corporation
Great American Chemical Corporation
Gulf Oil Corporation
Tenneco Chemicals, Inc.
Certain-Teed Products Corporation
The Goodyear Tire & Rubber Company
Continental Oil Company
Keysor-Century Corporation
Stauffer Chemical Company
Olin Corporation
Monsanto Company
The Pantasote Company
Borden Chemical Division of
Borden, Inc.
Air Products and Chemicals, Inc.
Ethyl Corporation
Georgia-Pacific Corporation

PRESENT BY INVITATION

G. Barrows
W. M. Busey

A. Chang
J. L. Creech
K. Curran
A. Davis
B. De Rosa
E. Drake
J. Du
E. Espinosa
R. C. Feldhoff
M. Fisher
H. P. Fortwengler
B. Gray
J. T. Joseph
C. E. Kupchello
C. Moore
K. O'Connell
J. Sandoz
C. R. Schrodtt
E. Scskas
U. N. Streips

University of Louisville
Experimental Pathology Laboratories,
Inc.

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PRESENT BY INVITATION (Continued)

C. H. Tamburro	University of Louisville
W. J. Waddell	University of Louisville
R. Warrick	University of Louisville
J. L. Wong	University of Louisville
P. Zurich	University of Louisville

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1.0 Introductory Comments by the Chairman of the Vinyl Chloride (VC) Technical Panel, Dr. T. R. Torkelson

Dr. Torkelson emphasized the importance and timeliness of a research review, the need of Panel members and members of the Research Coordinators as well as members of the VC Medical Subcommittee to have an opportunity to establish rapport with researchers at the School of Medicine, University of Louisville; and, the further need of VC Panel members to secure an insight into the 1979-1980 proposed research program. Dr. Torkelson then turned the meeting over to Carlo H. Tamburro, M.D., Principal Investigator, School of Medicine, University of Louisville.

2.0 Overview of University of Louisville Multi-Disciplinary Approach to the Study of Chemical Carcinogenesis, Especially Chemical Monomers - Dr. Carlo H. Tamburro, Principal Investigator

The Medical School, University of Louisville has developed a multi-disciplinary approach to the study of chemical carcinogenesis, especially chemical monomers. Vinyl Chloride was one of the first monomers under study. This study involved the combination of a cancer control program incorporating a prospective medical surveillance system for identifying occupationally related chemical cancer with a clinical research group which worked closely with a medical surveillance program developing better techniques for detection and prevention. Basic research on the molecular structure and pathogenesis of carcinogens, especially chemical monomers, created the third link in the multi-disciplinary approach to the overall study of chemical carcinogenesis.

The remainder of the research review was concerned with summations of studies which comprised components of the three major research parameters of the overall program. These parameters are:

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- I. Cancer Control Program - Medical Surveillance Systems
- II. Applied Chemical Investigations - Detection and Prevention Systems
- III. Basic Research - Pathogenesis of Carcinogens

Reviews were presented on the following component studies:

- 3.0 Analysis and Synthesis of Chemicals and Their Use in Bioassays for the Identification of Carcinogenic Potential
 - 3.1 Chemical Systems of Detection of Vinyl Monomer Toxicity - Dr. J. Wong
 - 3.2 Reactivity of Chemicals and Their Metabolites in Various Bacterial Assays - Dr. U. N. Streips
- 4.0 Use of Biochemical Enzymatic Systems for Detection of Chemical Toxicity
 - 4.1 The Characterization of Biochemical Enzymatic Changes Occurring with Prolonged Vinyl Chloride Exposure in Animal and Man - Dr. C. H. Tamburro, Dr. J. T. Du
 - 4.2 Vinyl Chloride Oxidation and Detoxification - Dr. C. H. Tamburro, Dr. J. T. Du
- 5.0 Immunological and Histopathological Studies in Chemical Injury
 - 5.1 Immunopathology of Vinyl Chloride-Induced Liver Angiosarcoma and Effects on Antigen Antibodies - Dr. E. Espinosa
 - 5.2 Search for Evidence of Vinyl Chloride Induced Tumor Antigen - Dr. C. H. Tamburro, Dr. H. P. Fortwengler
 - 5.3 HLA Frequencies in Vinyl Chloride Workers - Dr. C. H. Tamburro, Dr. H. P. Fortwengler
 - 5.4 Evaluation of Immunocompetence of Humans Chronically Exposed to Vinyl Chloride - Dr. C. H. Tamburro, Dr. H. P. Fortwengler
 - 5.5 Tissue and Urinary Glycosaminoglycans in Hepatic Fibrosis and Hepatic Cancer - Dr. C. E. Kupchella

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- 5.6 Hepatic Cell Identification Technique - Dr. C. H. Tamburro,
Dr. H. P. Fortwengler
- 5.7 Medical Surveillance System for Industrial Environments -
Dr. C. H. Tamburro
- 5.8 Bioassay of Chemical Monomers in Isolated Mammalian Liver
Cells - Dr. R. C. Feldhoff

6.0 Preparation of Abstracts on Component Studies

Drs. Tamburro and O'Connell have promised the Project Manager that complete abstracts will be prepared on all component studies. When available, these abstracts will be sent to Panel members of sponsoring companies.



J. T. Seawell
Project Manager
Vinyl Chloride Research

JTS:pmt
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