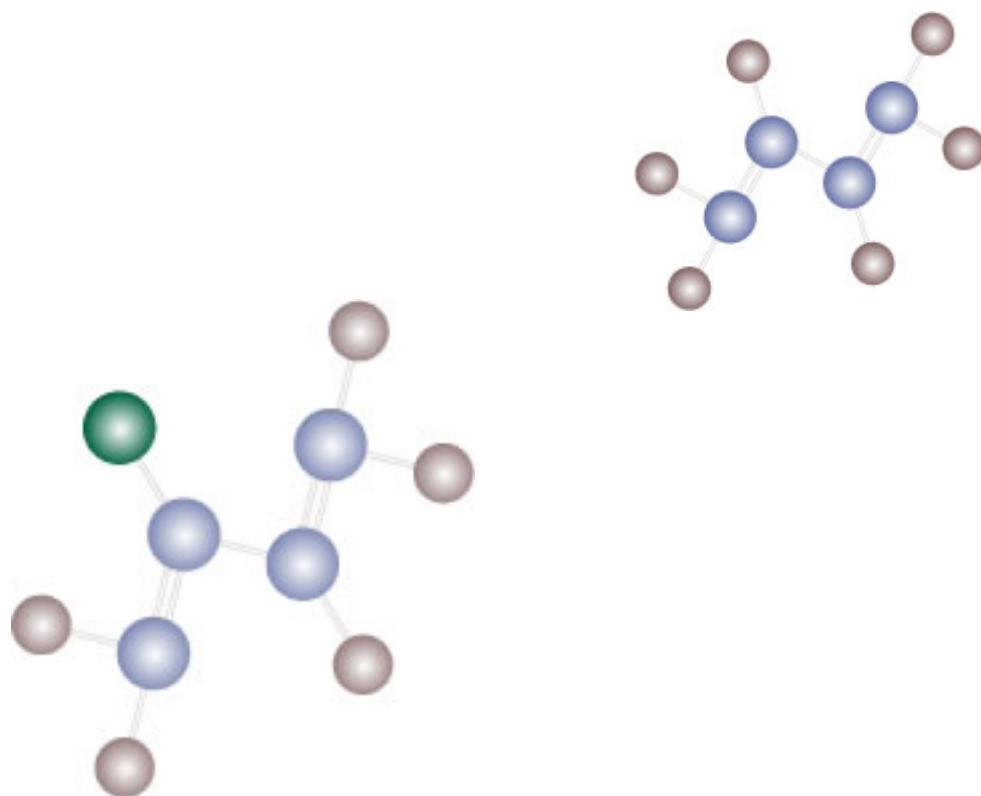


Evaluation of Butadiene & Chloroprene Health Risks

SYMPOSIUM SCHEDULE



20—22 September 2005

Francis Marion Hotel
Charleston, South Carolina USA

SYMPOSIUM SCHEDULE

20 September

Day 1

**Note: Posters will be on display throughout the Symposium.
See listing at end.**

Chair: Debra Kaden, Health Effects Institute

Co-Chair: Vernon Walker, Lovelace Respiratory Research Institute

Session 1

8:00 AM

Introduction and Opening Remarks

M. Himmelstein, DuPont Haskell Laboratory
Scientific Program Chair

R. Baan, International Agency for Research on Cancer
Scientific Program, Co-Chair

Session 2

Butadiene/SBR – Process Overview, Exposure & Health Effects/Human Studies

Chair: C. White, Lyondell Chemical Company

Co-Chair: J. Lewis, ExxonMobil Biomedical Science

8:30 AM

C. White, Lyondell Chemical Company
Butadiene Production Process Overview

S. Tsai, Shell

A Hematology Surveillance Study of Petrochemical Workers Exposed to
1,3-Butadiene

N. Sathiakumar, University of Alabama at Birmingham
Validation of 1,3-Butadiene Exposure Estimates for Workers at a Synthetic
Rubber Plant

N. Sathiakumar, University of Alabama at Birmingham
A Follow-up Study of Women in the Synthetic Rubber Industry

E. Delzell, University of Alabama at Birmingham
1,3-Butadiene and Leukemia Among Synthetic Rubber Industry Workers:
Exposure-Response Relationships

10:15 AM - 10:45 AM

Break

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Session 2 Cont.

10:45 AM

H. Higashino, Center for Risk Management (Japan)
Exposure and Risk Assessment of 1,3-Butadiene in Japan

R. Grant, Texas Commission on Environmental Quality
Ambient Concentrations of 1,3-Butadiene and Chloroprene in Texas

S. Smith, Houston Regional Air Monitoring
Butadiene – Ambient Air Monitoring Data Review

12:30 PM

Lunch

Session 3

Chloroprene – Process Overview, Exposure & Health Effects/Human Studies

Chair: J. Rice, Georgetown University

Co-Chair: M. Lynch, DuPont Performance Elastomers

1:45 PM

J. Rice, Georgetown University
Session Overview

M. Lynch, Dupont Performance Elastomers
Process Overview

N. Esman, University of Illinois
Chemical Process Based Reconstruction of Exposures for an Epidemiological Study: Theoretical and Methodological Issues

T. Hall, University of Oklahoma
Chemical Process Based Reconstruction of Exposures for an Epidemiological Study: Analysis of Industrial Hygiene Samples

A. Youk, University of Pittsburgh
Historical Cohort Study of Industrial Workers Exposed to Chloroprene and Other Substances: Epidemiological Methods and Issues

G. Marsh, University of Pittsburgh
Historical Cohort Study of Industrial Workers Exposed to Chloroprene and Other Substances: Cohort Characteristics and Results of External and Internal Mortality Comparisons

R. Leonard, DuPont Haskell Laboratory
Comparison of Standardized Mortality Ratios (SMRs) Obtained From Use of a Reference Population Based on a Company-wide Registry Cohort to SMRs Calculated Against Local and National Rates

Panel Discussion –All Session 3 Presenters

SYMPOSIUM SCHEDULE

12:30 AM

Lunch

Session 4 Cont.

1:45 PM

V. Walker, Lovelace Respiratory Research Institute
Age-, Gender-, and Species-Dependent Mutagenicity in T-cells from B6C3F1 Mice and F344 Rats Exposed by Inhalation to 1,3-Butadiene or its Metabolites

A. Kligerman, US EPA
Insights into the Mode of Action of Butadiene by Examining the Genotoxicity of its Metabolites

Panel Discussion and Conclusion

3:00 PM – 3:30 PM

Break

Session 5

3:30 PM

Introduction and Opening Remarks

M. Stevens, US EPA
Chloroprene and Butadiene Health Risk Assessments: Realities and Ambitions

Risk Assessment

Chair: S. Cagen, Shell
Co-Chair: M. Stevens, US EPA

3:45 PM

R. Dewoskin, US EPA
PBPK Models in Risk Assessment – A Focus on Chloroprene

M. Himmelstein, DuPont Haskell Laboratory
Kinetic Modeling of β -Chloroprene Metabolism: Default and Physiologically Based Modeling Approaches for Cancer Dose Response of Rodent and Human Data

I. Pagan, US EPA
Overview of Chloroprene Toxicity Studies and the Potential for Their Consideration in the Development of a Cancer and Noncancer Health Effect Assessment

SYMPOSIUM SCHEDULE

22 September

Day 3

Session 5 Cont.

8:00 AM

Risk Assessment

Introduction and Opening Remarks

S. Cagen, Shell

R. Albertini, University of Vermont

Molecular Epidemiological Studies in 1,3-Butadiene Exposed Workers

R. Sielken, Sielken & Associates

Cancer Risk Assessment for 1,3-Butadiene: Dose Extrapolation From an Epidemiological Perspective

J. Preston, US EPA

Cancer Risk Assessment for 1,3-Butadiene: Data Integration Opportunities

10:00 AM -10:30 AM

Break

Session 6

10:30 AM

Panel Discussion and Future Directions

Chair: J. Swenberg, University of North Carolina

Co-Chair: M. Bird, ExxonMobil Biomedical Sciences

Introduction and Opening Remarks

J. Swenberg, University of North Carolina

M. Bird, ExxonMobil Biomedical Sciences

Session Chairs and Co-Chairs will form a Panel to explore the issues identified and needs of future research.

Adjournment

12:00 NOON

M. Himmelstein and R. Baan

Poster Presentations

M. Doyle

Atmospheric Photochemical Transformations Enhance 1,3-Butadiene-Induced Inflammatory Responses in Human Epithelial Cells: The Role of Ozone and Other Photochemical Degradation Products

M. Powley

The Importance of 3,4-Epoxy-1,2-Butanediol and Hydroxymethylvinyl Ketone in 3-Butene-1,2-Diol Associated Mutagenicity

K. Sexton

Development and Testing of a Chemical Mechanism for Atmospheric Photochemical Transformations of 1,3-Butadiene

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S. Fustinoni

Biological Monitoring of Low 1,3-Butadiene Exposure in Italian Petrochemical Workers

D. Walker

Analysis of Plasma Metabolites and Hprt Mutant Frequencies Following Inhalation Exposure of Female and Male Mice and Rats to 3-Butene-1,2-diol

Q. Meng

Mutagenicity of Stereochemical Forms of 1,2;3,4-Diepoxybutane at HPRT and TK Loci in Humans Cell Line, Mouse Primary Cells, and in Rodents

J. Wickliffe

Detoxification of Butadiene Epoxides and Nucleotide Excision Repair of Epoxide-Mediated DNA Damage: The Role of Animal Models in Examining Human Sensitivity

R. Sram

Biomarkers of Effect – Cytogenetic Analysis of Peripheral Lymphocytes by Conventional Chromosomal Analysis

A. Elfarra

Mass Spectral Analyses of Hemoglobin Adducts Formed After In Vitro Exposure of Erythrocytes to Hydroxymethylvinyl Ketone

G. Boysen

Identification of Covalent Modifications of P450 2E1 by 1,2-Epoxy-3-Butene In Vitro

N. Georgieva

Analysis of *N*-terminal Valine Adducts Specific to Butadiene-Monoepoxide after Inhalation Exposure to Butadiene

M. Iba

Effect of *N*-Hexane on the Disposition and Toxicity of the 1,3-Butadiene Metabolite Intermediate 1,2-Dihydroxy-3-Butene (Butenediol)